

Marengo proving to be top-flight herbicide

It's official — Marengo[®] Herbicide from OHP is the new product of the year thus far in the ornamentals market.

We launched our pre-emergent flowable herbicide in January and the response from the market has been tremendous.

Beginning in the Deep South and moving steadily northward, the demand for Marengo has reached record levels. We sold out of our first shipment in a matter of six weeks.

"Even though we knew we had a great product based on all the testing we've done, we have been pleasantly surprised as the speed at which Marengo has moved," says



Marengo trial plots at the Spring Trials in California. Note the lack of weeds in the plots, 3 months after treatment.

Terry Higgins, OHP VP and general manager. "We're happy to report we have ample product in inventory despite the high demand."

"Marengo... provides... broad spectrum weed control of up to eight months at higher rates..."

Marengo, with the exciting new active ingredient indaziflam, is a selective pre-emergent herbicide that offers longterm residual control of both grassy and broadleaf leaves without harming desirable plants.

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Novel Discus Tablets offer growers alternative to sprays

If continuously spraying for insects is an increasing problem, you might want to take a critical look at Discus[®] Tablets from OHP.

We launched the novel product last August and the response from the field has been overwhelmingly positive.

Discus Tablets deliver imidacloprid (active ingredient in Marathon[®]) to the root zone in a unique delivery system. Application may be made to established plants or at planting.

Growers simply insert the tablets into the root zone of trees and shrubs grown in greenhouses and field and container nurseries. It's critical that the tablet be placed into the soil and not left on top. Consult the label for specific application rates and instructions.

As the tablet breaks down, it releases imidacloprid which is taken up systemical-

ly by the roots and translocated throughout the plant. The result is long-term control of sucking and chewing insects such as aphids, whiteflies, mealybugs, Japanese Beetles, leafhoppers, and more.

The need to spray with insecticides is greatly reduced after a Discus Tablet application.

The tablets are formulated to provide consistent delivery of the active ingredient (imidacloprid) over time. Release of the A.I. is dependent on the presence of adequate soil moisture, notes Dr. Carlos Bográn, OHP technical manager.

For those applying Discus Tablets to containers, "growers should make certain to allow no run out from the container for at least three irrigations or 10 days, whichever is longer," says Bográn. "Growers should ensure that the plant receives regular irrigation for at least 2-3 months after treatment." Discus Tablets contain a 12-9-4 fertilizer charge to enhance initial uptake.

Discus Tablets may provide up to two years control on production ornamentals.

Discus Tablets are packaged in a widemouth resealable container with 1,200 tablets. There are four containers per case.

Discus and Marathon are registered trademarks of OHP, Inc.

On the inside:

- OHP updates 'look'
- Further updates on Augeo
- Dr. Carlos Bogran joins OHP
- Kontos, a product for the future
- Suffusion, Strike, Terraclor news
- Greenhouse vegetables added to
 Shuttle O label



OHP News

OHP adds Dr. Carlos Bográn to tech team

OHP continues to set the industry standard by adding highly qualified and respected people to its employee roster.

In the past few months, Dr. Carlos Bográn has been functioning as OHP technical manager, focusing on insecticide and fungicide support and development on a national level.

Carlos replaced former Director of Technical Services Jeff Dobbs, who retired at the end of 2012.

"We are so fortunate to find someone as qualified as Carlos," says Dan Stahl, OHP VP of marketing and business development. "He brings quite an impressive skill set to his position and has meshed beautifully with the OHP team." In his role with OHP, Carlos is continuing to provide education and training to nursery and greenhouse employees.

'Carlos spent time educating growers in his former job and he continues that work with OHP," notes Stahl. "He is fluent in Spanish which is an added benefit in today's world of horticulture."

He joined OHP after 11 years as assistant and then associate professor and extension specialist in the departments of entomology and plant pathology, and microbiology at Texas A&M's AgriLife Extension Service in Bryan, TX.

Carlos holds a doctorate degree in entomology from Texas A&M University and a master's degree in entomology from Iowa State University. In his 18 years in agricultural research and extension, Carlos has authored close to 100 articles in industry and scientific journals and extension publications.



Carlos E. Bográn, PhD Manager Technical Services

David Barcel, OHP senior technical manager, is working in tandem with Carlos and continues to focus his efforts on herbicides and plant growth regulator (PGR) research and development.

Carlos can be reached at cbogran@ohp. com.

OHP speaking, exhibiting at Short Course and other shows

Once again, OHP will be exhibiting at the premier event in the world of professional horticulture, the OFA Short Course in Columbus, OH. The dates for this year's event are July 13-16, 2013.

Both Senior Technical Manager Dave Barcel and Technical Manager Dr. Carlos Bográn are on the educational program.

Dave is speaking on PGR use in two sessions:

- 1. "Do I need PGRs in nursery production?" on Monday, July 15 at 9:15 a.m.
- 2. "Branching Agents to Improve Crop Quality and Production" on Tuesday, July 16 at 8 a.m.

Carlos is speaking in two sessions as well:

- 1. "Tough-to-control nursery insects and solution strategies" on Monday, July 15 at 10:45 a.m.
- 2. "Strategies and sprayer techniques to control insects and disease" on Monday, July 15 at 3:30 p.m.

Please check out the sessions. You won't be disappointed.

In addition, Dr. Charles Gilliam of Auburn Univ. will be in our booth on Monday, July 15, from 2-4 p.m. to talk with our guests on his herbicide research.

We encourage attendees to stop by our booth (#1129) and say "hel-

lo." As always, we will have a full staff on-hand and some cool giveaways and special booth activities.

We'll also be at some of the other summer trade shows including the Farwest Show in Portland, OR (booths # 14015/15016) Aug. 22-24 and the OFA Disease, Insect, and Plant Growth Management in Vancouver, WA Sept. 9-11.

We hope to see you sometime this summer!

New literature available at Short Course

We frequently get positive comments about the quality literature we produce. If you're looking for informative, researched literature, take a look at OHP materials.

The good news is that we will feature all new editions of our literature at the OFA Short Course including the ever-popular Chemical Class Chart and Insect, Disease, and PGR Solutions.

In addition, if you can't make it to the Short Course to pick up copies, all literature is available to download in a PDF form on our website, ohp.com, or from OHP regional sales managers.

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THE Savvy GROWER's cutting edge July 2013 12.2/2



Insecticide/Miticide News

Kontos: a product for today and the future

By Dr. Carlos Bográn, OHP technical service manager

Sustainable crop production in the era of environmental awareness will require tools that are not only effective and economically feasible but also those that pose little or no risk to non-target organisms and our fragile ecosystems.

The unique characteristics of OHP's Kontos[®] Insecticide make it one of those modern tools for prevention of pest-derived damage in production horticulture today.

Whiteflies, mealybugs and scale insects feed by piercing into the plant's tissues and feeding on sap or cellular contents.

Control of these and other key pests such as thrips and aphids often requires the timely application of a systemic insecticide. Systemic insecticides are incorporated by the plant after application and move from treated surfaces to untreated ones, thus providing better protection than contact-insecticide sprays.

Whether or not an insecticide moves within the plant and the speed at which it moves is based on both the chemical and physical properties of the molecule and the size (and transporting mechanism) of the plant.

All systemic insecticide molecules available today can move acropetally (towards the tips of the plant) via the xylem but, often because they are highly water-soluble, do not effectively move basipetally (towards the base of the plant) in the phloem.

Kontos (spirotetramat) is a true systemic insecticide; once in the plant, it converts into a molecule with the perfect combination of characteristics for xylem and phloem mobility.

Even though the compound is not very water-soluble, it is a weak acid with intermediate membrane permeability which allows it to slowly diffuse through, accumulate into and get moved in the phloem tissues. No other insecticide available today is able to move 'up and down' the plant and provide complete protection against key pests.

Kontos is also friendly to our environment. Since it works within the plant tissues, it is not toxic to insects and other animals that do not feed directly on the plant's sap.

Also, since it works by inhibiting lipid (fat reserves) synthesis in the developing insects it has little effect on most adult predators and parasitoids that have already developed these fat reserves. Therefore, Kontos is highly compatible with biological control programs within an integrated pest management (IPM) strategy. Kontos is very quickly degraded by microorganisms in the soil and on the plant surface and it is used at such a low concentration (less than 0.03% by volume) that the chemical load on the environment is very low compared to traditional chemistries.



Kontos should be used early in the crop cycle to prevent pest damage and not as a rescue treatment. It takes time for the product to reach lethal concentrations within the xylem and phloem tissues and to get translocated through the plant.

Applications targeting small initial pest populations not only are more effective but also minimize aesthetic damage and plant losses. Because of its unique characteristics and excellent environmental attributes, Kontos is truly the first compound of its kind.

Kontos is a registered trademark of Bayer Corp.

Floramite SC/LS available in 8 fl. oz. size for landscapers

Landscapers can now take advantage of a smaller package size recently introduced by OHP. We now offer Floramite^{*} SC/LS Miticide in a new, convenient 8 fl. oz. package.

The new convenient packaging is ideal for the small landscaper and is available through OHP distributors.

The product is temporarily packaged with a Chemtura label and therefore, carries a different EPA registration number than the

one qt. size of OHP Floramite SC. The EPA registration number of the smaller size is 400-509.

Floramite, the leading miticide in the ornamental market, offers fast and thorough control of many types of mites including two-spotted spider mites, spruce spider mites, and Lewis mites. It is extremely soft on beneficial and predatory insects.

Floramite is registered trademark of Chemtura Corp.



Herbicide News

Don't forget about fall herbicide application

Spring is finally over, summer is here, and now is the time for growers to be looking at fall herbicide plans.

For container growers, this may be the last thing done before houses are covered. In field production, growers will apply earlier in the fall to maintain a barrier that will hold until next spring.

OHP offers three products that fit into a fall herbicide application: Marengo[®] (indaziflam), MOA #29, a new class; Casoron[®] (dichlobenil), MOA #20; and Biathlon[®] (oxyfluorfen & prodiamine), MOA #14 & 3.

All three products offer control that makes them a great candidate for a fall rotational program.

Growers should rotate chemical classes with herbicides, just as they do with insecticides and fungicides to prevent weed resistance development.

Marengo, a pre-emergent selective liquid herbicide, offers long-term residual control of both grassy and broadleaf weeds on ornamentals grown in production nurseries including those grown in-ground and in pot-in-pot containers.

"We have trialed Marengo liquid in several Ohio nurseries and found good to excellent control of most weeds targeted," says Randy Zondag, extension agent for The Ohio State University. "Recent trials in both container and field applications have shown September to June control of most common weeds with little phyto to most species."

Zondag continues: "We are currently testing to see if a split application of Marengo in fall and spring will add to length of control." Casoron is an older but very reliable herbicide. Casoron, a 4G formulation, develops a soil barrier when watered-in with .5 to 1.0-inch of water, and is active for 9-10 months after application.

Applications should be made under cool weather conditions in late fall or very early spring. Soil temperature should be less than 50 degrees F.

A fall application may be necessary to control certain perennials, such as fescues, horsetail, quackgrass, thistle and dandelions.

Biathlon is a pre-emergent granular herbicide built on a Verge[™] granule. The engineered granule provides unprecedented dust reduction resulting in improved worker safety and ease of application.

"We have trialed Biathlon against several common herbicides and found that it provides more uniform coverage and equal if not better control versus competitive products," notes Zondag.

No matter what product you choose timing is a big question. Many people tend to wait too long in the fall to apply herbicides. If weed populations get out of hand, growers should cultivate and pull weeds and then apply these products to barer ground.

Pre-emergent herbicides work best if watered in within several days of application. No one product will control all weeds. Select the product that will be designed to control those weeds growing in your field this year. If you have questions, contact your OHP regional sales manager.

Marengo is a registered trademark of Bayer. Casoron is a registered trademark of Chemtura Corp. Biathlon is a registered trademark of OHP, Inc. Verge is a registered trademark of Oil-Dri Corp.

Marengo a big hit with growers

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Marengo contains the first active ingredient from MOA (Mode of Action) Group 29. The active ingredient prevents weed seed germination by inhibiting cellulose biosynthesis. Marengo does not move once applied to the soil and does not volatilize.

The lack of volatility has resulted in Marengo labeling for use in shade and hoop house as a directed spray to the growing surface.

In addition, Marengo is registered for use as a directed spray on production ornamentals grown in outdoor nurseries, as well as on conifers, Christmas trees, and ornamental production sites and hardscapes.

"Marengo is labeled for many uses and provides extended broad-spectrum weed control of up to eight months at higher rates," notes Dave Barcel, OHP senior technical manager. "It's extremely active at low use rates." However, Barcel notes Marengo should not be applied as an overthe-top spray to ornamentals.

"We want to stress to Marengo users that they cannot spray it over the top of plants. It's to be used as a directed spray only," adds Barcel.

Marengo use rates range from 7.5 to 15.5 fl.oz. per acre depending on soil type and conditions. It performs best when applied to bare ground or mixed with a post-emergent herbicide to eliminate existing weeds.

Marengo is packaged in one-half gallons, packed 4 to a case.

The product is not yet registered for use in California. For labels and MSDS, please visit the OHP website at ohp.com.

Marengo is a registered trademark of Bayer.

PGR News

OHP display a success at CA Spring Trials



OHP Senior Technical Manager Dave Barcel participated in his 18th California Spring Trials in April. At right, part of the impressive display at American Takii in Salinas.

OHP was privileged to welcome many visitors to its California Spring Trials display at American Takii in Salinas.

Held in April, the annual event attracts growers from across the U.S. to view the latest in genetics, plant materials, and research at locations up and down the coast of California.

OHP demonstrated the results of its plant growth regulators (PGR) on perennials and annuals such as Takii's Opera Supreme Petunias, flowering kale, and cut flowering kale varieties.

In addition, OHP showcased weed control plots featuring our new pre-emergent herbicide Marengo. The plots highlighted results of treatments on hoop house floors and around the perimeter of greenhouses.

"We had a lot of interest in all our work but the Marengo results really wowed attendees," notes OHP Senior Technical Manager Dave Barcel, who participated in his 18th Spring Trial event.

In addition, OHP demonstrated the effect of its PGR Augeo' on both poinsettias (Dummen Prima Red) in place of a pinch and on double Knock Out' Roses (sponsored by Northwest Horticulture).

"We hope to continue to showcase our research results at the spring trials," notes Barcel. "It's a great opportunity for growers to touch and feel plant materials and see first-hand what we're doing in the way of research."

Marengo is a registered trademark of Bayer. Augeo is a registered trademark of OHP, Inc.

Fine tuning the Augeo no-pinch poinsettia program

by Dave Barcel, OHP senior technical manager

Partners with solutions

Our no-pinch poinsettia program featuring sprays of the PGR Augeo[®] has been ongoing and continuously evaluated for the past 3 years.

The results have been very encouraging and testing in 2012 has uncovered more detailed uses.

Dr. Jim Barrett, University of Florida, tested Augeo on poinsettia varieties Prestige, Prestige Early Red, Jubilee Red, Tikal and Prima in 2012. Treatments consisted of a pinched plant, and plants treated with Augeo sprays of 800 PPM, 1200 PPM or 1600 PPM at 7 days after transplant (transplant date Aug. 8, 2012).

Dr. Barrett also included the addition of PGR treatments to control plant height. This was either an early B-Nine[®] and Cycocel[®] application using 1250 PPM and 1500 PPM, respectively, at 28 days after transplant on the Augeo 800 PPM treatment or using a paclobutrazol (such as OHP's Paczol[®]) low dose drench at 0.1 PPM on Oct. 24 and again on Nov. 7 using 0.2 PPM on remaining Augeo treatments. (These are rates for Northern Florida. Growers in the Northern U.S. should adjust accordingly.)

Prima finished with comparable results to that of a pinched crop and appears to be a very good candidate for the Augeo no-pinch program. Photo 1 and Photo 2 show the comparison of the Prima pinch crop vs. the Augeo 800 PPM crop and PGR program.

Based on three years of testing, the best recommendation for using Augeo on poinsettias is to apply a spray of 800 PPM for Prima and slightly



At left, Prima pinched at 14 DAT; at right, Prima treated with Augeo at 800 PPM 7 DAT plus a PGR.

higher rates of 1200 PPM or 1600 PPM for Prestige, Prestige Early Red or Jubilee.

The lower rates applied once will need the addition of PGRs to control height of the main shoot.

Augeo sprays will yellow up the crop for a period of several weeks after application but plants will grow out of it by finish time.

Augeo must also be allowed to dry on the plant for a minimum of six (6) hours and growers should wait until the following day for any overhead watering.

Since every grower's location can differ in light, temperature, feed rates etc. it is recommended that growers test Augeo for the varieties to be grown in order to better determine the best rate for their location and growing practices.

Augeo is a registered trademark of OHP. B-Nine and Paczol are registered trademarks of Chemtura Corp. Cycocel is a registered trademark of BASF Corp.

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THE SAVVY GROWER'S cutting edge July 2013 12.2/5



OHP News

Suffusion now labeled for turf applications

We continue to add products and new uses for existing products in our portfolio. The latest addition is to Suffusion^{**}, our popular and versatile wetting agent.

Both the Suffusion Liquid (L) and Granular (G) products are now labeled for application to turf grass to allow for more efficient penetration of water into the root zone.

Suffusion L is applied to turf grass at a rate of 2 to 4 qts. per acre per month. For best results, users should apply 2 qts. per acre every two weeks.

Suffusion G is applied to turf grass at 1.5 pounds per 1,000 sq. ft. on a 10-14 day interval or as necessary.

For best results Suffusion on turf should be watered-in immediately after application.

In addition, Suffusion continues to be labeled for use in growing media and containers in greenhouses, interior plantscapes, and in soil production. *Suffusion is a trademark of AmegA Sciences*

OHP adds Strike Plus to product portfolio

We've given one of our established fungicides a facelift. Strike[®] 50 WDG systemic fungicide has become Strike Plus 50 WDG and will be available later this year.

In addition to the active ingredient triadimefon, Strike Plus contains trifloxystrobin, the active ingredient in Compass[®] O.

The new formulation contains 41.67% triadimefon and 8.33% trifloxystrobin, giving Strike Plus a broader spectrum of disease control.

Not only does Strike Plus control powdery mildew and rusts, it also controls anthracnose, black spot, downy mildew, scab, and other diseases.

In addition, we've simplified the label. The former Strike label was difficult to decipher. The new Strike Plus label is more straight forward and easier to interpret.

Growers will note an economic benefit to the new Strike Plus label as well.

Rates range from 1.2 to 9.0 oz. per 100 gal. of water.

We will no longer manufacture the old Strike product but will keep the registration active for a few years to allow growers to use up old stock.

Strike is a registered trademark of OHP, Inc. Compass is a registered trademark of Bayer.

Terraclor now available for growers, landscapers

We announced great news for growers this spring with the relaunch of our highly-effective Terraclor[®] 400 Ornamental Fungicide.

Because of a regulatory issue, the product was temporarily unavailable.

Now it's back and many growers are taking advantage of its efficacy against rhizoctonia, sclerotinia, and and Phyllosticta. The liquid fungicide may be used in greenhouses, nurseries, and shadehouse as well as on landscape and field grown ornamentals.

Terraclor can be sprayed, drenched, or used as a bulb soak on a variety of woody plants, bedding plants, bulb crops such as gladiolas, hyacinths, iris, tulips, and lillies. Terraclor 400 can be used on Southern Magnolia Trees for control of phyllosticta cookeri.

There's more good news. Terraclor may be used as a soil drench on vegetable bedding plants grown in containers or beds including tomatoes, peppers, broccoli, and cabbage for control of rhizoctonia solani prior to transplanting in the field.

The product is available through authorized OHP distributors in a one-gallon container, four to a case. It carries a 12-hour REI and a Caution signal word.

Terraclor is a registered trademark of AmVac.

Greenhouse vegetables added to Shuttle O label

Growers can now use Shuttle[®]O Miticide on fruiting vegetables grown in greenhouses for control of two-spotted spider mites^{*}.

The label expansion is the latest in OHP's efforts to provide more tools for the production ornamental grower.

The new labeling allows for use on greenhouse-grown fruiting vegetables including eggplant, groundcherry, pepino, pepper, to-matillo, and tomato.

Shuttle O offers rapid knockdown of mites, Reduced Risk classification, activity on all life stages, long residual control, a unique mode of action, and is soft on beneficial insects.

Pre-harvest interval on the amended label is one day.

Users are prohibited from using an adjuvant or surfactant while spraying greenhouse-grown vegetables.

Shuttle O is effective on a wide range of mite species including two spotted spider mites, spruce spider mites, citrus red mites, European red mites, and Pacific spider mites, and several others.

Shuttle O is the only member of Mode of Action (MOA) group #20B (electron transport inhibitors), which makes the product a great addition to any mite control rotational strategies.

A suspension concentrate (SC) formulation, Shuttle O carries a 12-hour Restricted Entry Interval (REI) and a Caution signal word. Consult the label for specific application instructions.

* Shuttle O is not yet registered for the new use pattern in California and New York. Check with your state regulatory agency for registration status in your state.

Shuttle is a registered trademark of Arysta LifeScience North America Corp.

THE SAVVY GROWER'S cutting edge July 2013 12.2/6



OHP News

OHP 'look' continues to change and evolve

by Ryan Boehm, OHP manager of marketing services

For the past 8 years we've done a great job at building our brand around consistency and the way we visually interface with the market. There comes a time when change is necessary to evolve, and while we want to be respectful of our customers and audience, we've decided to update our look and style.

If you're familiar with our literature or labels, you know we've denoted our products via specific colors based on their categories. (i.e., fungicides, insecticides, etc.)

We've decided to lean on that history and build upon it visually. You'll begin to notice a tie-in with those category colors

throughout all of our collateral materials. We liken the many colors to the many "solutions" OHP delivers to the greenhouse and nursery markets.

As you begin to see our look change, you may also notice we're taking a more active role with social media. Most of our new marketing pieces will be pushing #hashtags and the use of Twitter (@OHPSolutions). If those terms seem like Greek, don't worry, we won't leave you behind...it just means your kids or grand-kids will have to keep you up-to-date.

So join us either digitally or traditionally as we step into our new look in the coming weeks and years. If you have a comment, please send to rboehm@ohp.com.

Information bar

- Color will change based on product or family subject.
- Product categories will be listed, reinforcing OHP's "Solution" based portfolio. Featured category will be highlighted and marked with arrow.
- Product or family hashtag will be featured
- OHP Twitter account featured (@OHPSolutions)
- QR code will be ad specific, leading user to product page
- Standard OHP contact methods (phone & website)



Bulleted "highlights" at bottom of page will look similair to previous ads to help ground the new look to the old look—creating familiarity

We welcome your comments and suggestions

We are always looking for ways to make our newsletter better and more informative for our valuable grower customers.

If you have a suggestion, comment, or just want to offer input on our newsletter or OHP in general, please drop us a line at kkuhajda@ohp.com.

We also welcome your comments on our new "look" as described above by Ryan Boehm, our marketing services manager. Your suggestions are welcomed and encouraged.

In addition, please inform us if you wish to begin receiving our newsletter or if we need to delete anyone on our mailing list. Use the email address provided.

If you have literature requests, please let us know and we can provide for you. Or you can just download all literature off our website at ohp.com.

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