

## Biathlon intro a big success with nurseries

We launched Biathlon® pre-emergent granular herbicide in May, 2011, and the response from nursery growers has been overwhelmingly positive.

Growers especially like the low-dust, low odor granule and minimal personal protective equipment (PPE) requirements. Product performance is outstanding, as well.

Biathlon is labeled for many hard-to-control grassy and broadleaf weeds, including crabgrass, bittercress, oxalis, spurge, and many others.

"The Verge® granule technology used in Biathlon production gives us an edge over competitive granular herbicides," notes OHP Director of Technical Services Jeff Dobbs. "Plus we are effective at 100 lbs. per acre unlike some other granular pre-emergent herbicides which are 150 lbs. per acre."

Biathlon is a combination of oxyfluorfen and prodiamine produced on an easy-to-use, engineered, and consistent granule.

Growers may apply Biathlon in the fall for control of early-season weeds. In addition, growers can apply Biathlon in the spring and throughout the year for long-term weed control.



*Biathlon has been warmly received in production nurseries throughout the U.S.*

Users must not exceed two applications of Biathlon per acre, per year, or 200 lbs. per acre, per year. Growers should re-apply Biathlon at 3 month intervals.

As with most granular herbicides, Biathlon must be watered-in with at least ½-inch of water or applied within 24 hours of when rain is expected.

PPE requirements include long sleeved shirt and pants plus socks and shoes.

Biathlon may be used on Christmas tree and conifer farms as well as in grounds maintenance situations and in specified non-crop areas. The specimen label, MSDS, and Product Information Bulletin (PIB) are available at [www.ohp.com](http://www.ohp.com).

*Biathlon is a registered trademark of OHP, Inc.  
Verge is a registered trademark of Oil Dri Corp.*

## Our crystal ball says 2012 to be fantastic year

We feel great about the future of the horticulture industry as we head into a new year. We hope you do too.

We know the challenges and the issues. We know about the soft economy and the poor spring weather in many areas that we faced in 2011 and could face again in 2012.

But we believe in you, the production ornamental grower, and our industry!

We're always amazed by the survivability of our industry. We're impressed by the innovations, ideas, marketing savvy, and guts that we see.

"Ornamental growers are an adaptable group," says Terry Higgins, OHP vice president and general manager. "We know they will survive and thrive in these challenging times and that is why we continue to invest in our company – to make certain we provide great products to thrive along with them."

With over 50 individual products and over 30 brands in its product portfolio, OHP will continue to add to those numbers in 2012 and beyond, notes Higgins.

*Consult [www.ohp.com](http://www.ohp.com) for more information on the OHP product portfolio.*

## Kontos label revised, new insects added

You will be hearing a lot about our new insecticide/miticide Kontos® this year.

We are pleased that Kontos has become a regular tool in the pest control arsenal of both nursery and greenhouse growers.

We've increased some application rates and added thrips and scales (crawlers) to the label.

Kontos has features that set it apart from other products.

It exhibits true up-and-down movement in the plant, which is an advantage in the fight against pests. Coverage is easy to achieve with Kontos.

Kontos is labeled for use on vegetable transplants.

Kontos is phloem-active so growers can spray it and be assured that the active ingredient will move down in the plant. A spreader-sticker will improve performance.

Or you can drench Kontos and because it is xylem-active, it will move up systemically through the roots for long-term control. Drench rates have been increased on the new label revision.

Kontos provides thorough control of other sucking insects such as aphids, whiteflies, and mealybugs, and in addition, provides suppression of low populations of mites.

Because of its low water solubility, activity with Kontos takes a few days so please be patient.

Kontos is labeled for use in greenhouses, nurseries, and interiorscapes.

You'll see plenty of research results plus advertising and promotion for Kontos in 2012.

*Kontos is a registered trademark of Bayer.*

## Fungicide News

# OHP's Terrazole L features improved formulation

We've added a new formulation of an established active ingredient to our product portfolio.

Terrazole® L, a new OHP product containing the active ingredient etridiazole, offers an easy-to-use formulation that won't clog spray filters and is low odor.

Growers will still see incredible *pythium spp.* and *phytophthora spp.* control with the new formulation, even on mefenoxam-resistant strains of pythium.

In addition, golf courses can use Terrazole L for control of pythium on greens-grade tees and greens.

Both ornamental and golf course applicators will notice that odor is reduced with the new formulation.

The product contains 4 pounds active ingredient per gallon versus 2 pounds per gallon for the leading competitive product. That means Terrazole L contains fewer solvents and ingredients that cause odor or clog sprayers.

Greenhouse and nursery rates range from 2.5 to 7 fl. oz. per 100 gal. of water. Growers should follow the volume ranges

described in the label. If applied overhead with a boom-type application system, growers should make certain the product is washed off leaves and into the soil.

Golf course rates are 1.5 to 3 fl. oz. in 2 to 5 gal. of water applied to 1,000 sq. ft.

Terrazole L is an excellent tank mix partner with OHP 6672™ for control of other diseases such as rhizoctonia and thielaviopsis.

Terrazole L is available through authorized OHP distributors in most states.

OHP will continue to offer Terrazole 35WP, the wettable powder formulation of etridiazole, for the near future.

Terrazole is a registered trademark of Chemtura Corp. OHP 6672 is a trademark of OHP, Inc.



*Pythium on pansy roots*

## Veranda O making the grade for botrytis, rhizoctonia control

Growers and researchers are reporting excellent disease control with our new fungicide, Veranda™ O.

Veranda O, with its active ingredient, polyxin D, is providing consistent control of tough diseases such as botrytis and rhizoctonia.

During a session at the Michigan Fruit and Vegetable meeting in December, Dr. Mary Hausbeck of Michigan State University called Veranda O an "A player" for both rhizoctonia and botrytis control.

Growers are also seeing control of scab, alternaria, powery mildews, thielaviopsis, and other diseases.

In addition to ornamentals, Veranda O may be applied to fruits and vegetables.

Growers may use Veranda O for disease control on various crops including cucurbit vegetables, fruiting vegetables, pome fruits, strawberries, and non-bearing vine fruit and fruit and nut trees.

Veranda O carries a 4-hour Restricted

Entry Interval (REI) and is classified as a "biopesticide" and a Reduced Risk pesticide. Veranda O is soft on beneficial insects and predators.

The product is available in an easy-to-use Wettable Dispersible Granule (WDG)

which leaves virtually no residue.

Veranda O should be used preventatively; that is, when conditions are ripe for disease development. Rates are 4 to 8 oz. per 100 gal.

Veranda is a trademark of Arysta LifeScience North America, LLC.

## Disarm O fungicide latest OHP product intro

The new products just keep on coming! OHP's latest product introduction is Disarm™ O fungicide, a member of the strobilurin class of chemistry (MOA #11).

The Disarm O specimen label lists control of tough soil-borne diseases such as rhizoctonia, sclerotium, fusarium and phytophthora. A crown spray is necessary to control these diseases.

In addition, Disarm O is labeled for control of many leaf blights/spots including alternaria, anthracnose, cercospora,

myrothecium, powdery mildew, and rusts.

As a spray or drench, Disarm O provides up to 21-day residual control, and features speedy translaminar activity.

Disarm O carries a 12-hour Restricted Entry Interval (REI) and a "Caution" signal word.

OHP continues to include Disarm O in many fungicide research trials throughout the U.S.

Disarm is a trademark of Arysta LifeScience North America, LLC.

## Insecticide/Miticide News

# Got mites? We have you covered with Sirocco

Parts of the U.S. experienced brutally hot and dry conditions during the summer of 2011.

In certain areas, two spotted spider mite populations were extremely high with the hot and dry conditions. It was the perfect year to launch a miticide which we did with Sirocco™ in early 2011.

Growers were impressed about the level of control seen with the combination product. At the low end of the label rate (3 fl. oz. per 100 gal. water), control was significant.

As an added benefit, Sirocco provides suppression of thrips, aphids, and whiteflies, and control of leafminers.

In addition to two-spotted spider mites,

Sirocco gives control of other tough pests including broad mites, cyclamen mites, rust mites, spruce spider mites, and others (see label for complete list).

A combination of bifenazate and abamectin, Sirocco features speedy translaminar activity, up to 28 days residual control, and a 12-hour REI.

Full use rates are 3 to 6 fl. oz. per 100 gallons of water. Sirocco may be used in greenhouses, shadehouses, nurseries, Christmas tree farms, landscapes and interiorscapes.

Sirocco is due to be registered for use in California in late January and is not for out-



Using Sirocco can prevent mite build-ups like the one above on roses.

door use in Arizona.

Contact your local OHP regional sales manager or OHP distributor for more information.

*Sirocco is a trademark of OHP, Inc.*

## Judo miticide/insecticide provides excellent, long-term control

If you're looking for effective and fast-acting insect and/or mite control, OHP's Judo® is a great choice. We introduced Judo in 2005 and it has grown into a significant player in the insect/mite control arena. Below is a brief summary of how it is being successfully used for mite and insect control.

### Mite control

For many nurseries and greenhouses, Judo is an integral part of a mite control rotational strategy.

Judo has many features that make it a great miticide choice:

- Effective against all life cycle stages of mites;
- Long-term (30-day) residual control;
- Labeled for use in both greenhouse and nurseries;
- Highly translaminar activity;
- Soft on beneficials;
- 12-hour REI and CAUTION signal word

The 4F (4 lbs. per gallon flowable formulation) performs well against several mite

species including two-spotted, and broad and cyclamen mites.

In addition, Judo is used quite frequently and is highly effective in the Northern U.S. on early-season mites such as spruce spider mites.

### Insect control

Poinsettia growers rely on Judo for both early and late season whitefly control. It is color-safe and can be used as a "rescue" product when late-season whiteflies are a problem.

Judo is highly effective against whitefly nymphs plus it has an effect on the difficult-to-control pupal stage.

Judo kills mites and whiteflies by desiccating adults, immatures, and eggs. It also inhibits molting and oviposition in adult females.

Judo should not be used on geraniums (*Pelargonium spp.*), crotons, and Dracaena. Consult the label for a complete list of sensitive plant materials.

*Judo is a registered trademark of OHP, Inc.*

## Thrips control with Pedestal, Azatin

From coast to coast, growers mention thrips as one of the most troublesome pests to control. We have products that can help in the never-ending fight.

Pedestal® and Azatin® Insect Growth Regulators (IGR) are effective thrips control products when used as part of a rotational strategy utilizing multiple modes of action.

Both are IGRs and are usually applied with the addition of an adulticide (such as OHP's Decathlon®) since they control only the insect's larval stage.

Pedestal, with its active ingredient novaluron, is used at 6 to 8 fl. oz. per 100 gal. of water for control of larval stages of thrips.

Containing the active ingredient azadirachtin, Azatin is used at 12 to 16 fl. oz. per 100 gal. and controls many Lepidoptera species as well as thrips. Azatin is labeled for use on vegetables and herbs as well.

The products should not be used together. For more information on the OHP Thrips Cocktail and spray strategies, consult our website at [www.ohp.com](http://www.ohp.com).

*Pedestal is a trademark of Makhteshim-Agan. Azatin is a registered trademark of Certis. Decathlon is a registered trademark of OHP, Inc.*

## PGR News

### Augeo: the story in pictures

Our new PGR Augeo™ has become a unique tool for growers since its introduction a year-and-a-half ago.

Augeo is a branching agent which reduces apical dominance by disrupting auxin production and allowing lower bud release. The result is more branching and blooms.

Growers have been pleased with the excellent response to foliar applications on several crops such as fuchsia, calibrachoa, lantana, verbena, and petunia.

With our position as the industry leader in PGRs, we have learned that photos, rather than words, tell a better story. Here are photos which document the positive results we've seen with Augeo.

*Augeo is a trademark of OHP, Inc.*

### B-Nine 5-pounders now available in OHP packaging

Over the course of 2012, our grower customers will begin to see our reliable plant growth regulator (PGR) B-Nine® in OHP packaging.

For now, just the 5-pound size material is being converted to OHP packaging. The 1-pound B-Nine units will change to OHP packaging later in 2012.

You will continue to see B-Nine 5-pounders packaged in both Chemtura and OHP bags throughout 2012. Eventually the Chemtura packaging will be phased out.

OHP and Chemtura signed a marketing agreement in 2007 which gave OHP exclusive distribution rights for the sale and servicing of all Chemtura horticultural products.

Most of the former Chemtura products have made the switch to OHP packaging. Some will continue to carry the Chemtura packaging but are serviced by OHP.

*B-Nine is a registered trademark of Chemtura Corp.*



Clockwise from above, (1) Mandevilla 12 Weeks After Treatment (WAT) - control (L), 1600 ppm Augeo spray (c) and 3200 ppm spray (r); (2) Prestige Early Red poinsettia - control left, and 2 applications Augeo at 800 ppm, day 7 and 14; (3) Oak Trees, control on right, and Augeo at 3200 ppm on left; (4) Royal Glissade Coleus, control (r) and 800 ppm Augeo sprayed twice; (5) Cora Burgundy Vinca - control (L), 1600 ppm (c) and 1600 ppm Augeo plus 500 ppm Florel (r); (6) Lantana New Gold - control (l), 800 ppm (c) and 1600 ppm (r).



3 Photo courtesy of Dr. Gary Keever, Auburn University



Poinsettia, coleus, vinca, and lantana photos courtesy of Dr. Jim Barrett, U. of Florida



### OHP once again part of California Spring Trials

We are excited to be a small part of the upcoming California Spring Trials to be held March 24-29, 2012.



Above, the OHP demonstration area at American Takii in Salinas, CA. Below, OHP Senior Technical Manager Dave Barcel addresses visitors to the OHP trial area.

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

OHP Senior Technical Manager Dave Barcel will be showcasing the effects of our plant growth regulators (PGR) at American Takii in Salinas, CA.

He will focus on the effects of Augeo®, Paczol®, B-Nine® and Cycocel® on American Takii plants such as holyhock, cannas, dianthus, and kale.

This will be the 17th consecutive year that Dave has been a part of the event at American Takii.

Please make sure to stop in and say "hello" to Dave and other OHP employees, and check out our results.

Remember, the event is a day or so shorter this year so it may take a bit more planning to see all the Trial participants.

For more information on the Trials, visit [www.springtrials.org](http://www.springtrials.org).

## OHP News

# OHP launches new, improved website

We have made revisions and improvements to our already-superior web site (<http://www.ohp.com>).

The new website design features several changes that make navigation and information retrieval even easier. The site is available in Spanish as well.

Among the improvements aimed at providing the same great information with a better delivery mechanism:

- quicker and more robust search functionality;
- one-click access to information;
- enhanced visual layout;
- improved video access;
- better compatibility for today's mobile devices

Designed and developed by OHP Manager of Marketing Services Ryan Boehm, the site allows for easy access to OHP literature such as specimen labels, our popular Chemical Class Chart, and MSDS.

"We realize that company websites are more important than ever and we plan to maintain and upgrade the OHP website on a regular basis to stay on the leading edge of communication," notes Boehm.

The OHP website averages 2,000 unique visitors a month and is generally regarded as one of the best in the horticultural pest control industry.



OHP's new website home page

## Tech Update: Controlling Cyathia Drop on Poinsettia

Poinsettia flowers (cyathia) or the yellow fruiting structure in the center of bracts can over-ripen and fall out of the center. Many consumers view cyathia drop in a negative light. Some varieties are more prone to this than others.

Factors such as high temperatures, low light, long bench time and plant variety are key factors to cyathia drop. It can be a real problem for crops in the South if shipping time in a truck is long and temperatures are high.

To prevent or delay cyathia development a grower can increase light levels or cool the crop.

They can also apply a PGR such as one of the anti-Ga's (Giberellic Acid). Products such as Paczol® or Cycocel® will block Ga synthesis which is in part a blocker to the ripening of the cyathia.

This research and rates noted below were developed some 25 years ago with paclobutrazol and Cycocel.

The key to this is that a grower should only apply the material from one-to-two weeks before shipping/sale.

Rates for Paczol are 10 to 20 PPM (spray) and 500 PPM (spray) for Cycocel. Again, timing is critical – one-to-two weeks before shipping/sale.



Normal cyathia development

Cyathia starting to ripen

Paczol is a registered trademark of Chemtura Corp. Cycocel is a registered trademark of BASF.

## How do I apply Paczol with an injector?

At right is a helpful table to calculate how much Paczol® should be added to a gallon of water to achieve a desired PPM when applying with a chemical injector. A common injection ratio is 1:100, meaning one gallon of concentrate (stock solution) is evenly dispersed via injection into 100 gallons of irrigation water.

Example: for a 1 PPM rate with an injector set at 1:100, you mix 95 mL Paczol (3.2 fl oz) into one gallon of water (stock solution) and run the injector until the gallon is gone. Be sure to check that the 100 gallons used is appropriate for the square footage of bench space sprayed or for the number and size of pots being drenched.

**Injector Ratio**  
All quantities are expressed in milliliters per gallon stock solution.

	1:16	1:50	1:100	1:200
<b>Desired Concentration</b>				
0.25 PPM	4	12	24	48
0.5 PPM	8	24	47	94
0.75 PPM	12	36	71	142
1 PPM	15	48	95	190
2 PPM	30	90	190	380
3 PPM	45	140	280	560
4 PPM	60	190	380	760
5 PPM	75	235	470	940
10 PPM	150	470	940	1880

1 milliliter equals 29.57 fl. oz.

Remember, sprays of PGRs, including Paczol, are typically applied at 2 qt. per 100 sq. ft. of bench space or 100 gal. per 20,000 sq. ft. Drenches are done at 2 fl. oz. per 4-inch pot, 4 fl. oz. per 6 inch pot, etc. Please check the

Paczol label for specific instructions.

It is advised to leave a small portion of the crop untreated so an accurate evaluation of the growth suppression may be observed.

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