

January 2018

GH Grower Advisor

Newsletter for the Greenhouse Industry

Dear AGGA members,

I am writing to thank you for the support TerraLink has felt not only throughout 2017, but for many years now. TerraLink appreciates the multitude of times you've invited us into your greenhouse businesses to see what you do, meet your families and employees, as well as learn from you. Our goal is to do the best we can in representing various professional product lines, understand what we offer for sale, and where possible help technically with the application of these products. Above all else, we want to be accurate and dependable, and via our actions, form a trusting partnership with you.

Some changes in Terralink sales reps made for an interesting 2017, however we feel very good with the outcome and know you will too. Brad Breedveld accepted a full time position with Rijk Zwaan providing Paul Schlacht an opportunity to move back to BC. TerraLink then spent considerable time looking for the right person to manage the Alberta territory to replace Paul. That turned out to be a difficult task but nevertheless our paths crossed with Simon Loewen, who is a wonderful, humble, intelligent individual who is eager to learn and has lots to give to the Alberta industry. I would like to thank Brad and Paul for their investment in both families and businesses in Alberta. Having said that Brad and Paul will still have some responsibilities in AB, so they are not far away from you! Simon, we welcome you and thank you for your enthusiasm and wish you success as you enjoy the rewards and work through the challenges of being a leader in Alberta Horticulture.

I wish all the readers good health and success with your 2018 crops.

John Whittaker
TerraLink Horticulture Inc.

Pest Control

BotaniGard

BotaniGard is a microbial-based bioinsecticide labelled for use in the management of common greenhouse pests such as aphids, thrips and whiteflies. Its active ingredient is the insect-attacking fungus known as *Beauveria bassiana* strain GHA. Based on this strain's use history and broad applications in the U.S., it may be the most versatile entomopathogenic fungus on the planet. The product comes formulated for growers in a wettable powder and emulsifiable suspension and is distributed exclusively by BioWorks, Inc.

Not your typical mode of action. The living spores in BotaniGard adhere to and germinate on the cuticle of insect targets that come into contact with the spray application. The fungus will grow into and then proliferate within the body cavity. The insect will stop feeding and moving, and then ultimately die from the infection in 3-7 days. Because of this mode of action, the development of insecticide resistance is highly unlikely.

For best results, use these practices. BotaniGard is best used preventively to stop pest outbreaks before they begin. Make applications at 5-10-day intervals and continue for as long as pest pressure persists. Apply at 2-5-day intervals as necessary to combat high populations. BotaniGard may be used as a standalone application or as a rotational partner with conventional chemical insecticides to reduce the risk of selecting for insecticide resistance. It is also tank-mixable with many other products.

Rooted in your community.

TerraLink

As a contact insecticide, thorough spray coverage is vital to hit targets on leaf undersides or in dense foliage. Spray to wet, but avoid runoff. The shelf life of BotaniGard is 9 months when stored at room temperature (25°C) or under refrigeration (4°C) 12 months, however under hot conditions (35°C) this decreases to no more than a month.

BotaniGard ES and BotaniGard 22WP can both be used on greenhouse ornamentals, vegetables, herbs, strawberries and wasabi. Indoor commercial marihuana was recently added to the label so now cannabis cultivators also have this product as a pest management tool. An interesting facet of the 22WP label is that there are instructions for use in bumble bee pollinated greenhouses. Through "pollinator biocontrol vector application" bees dispense the product to the plants that they pollinate. For greenhouse growers across Canada, BotaniGard may turn out to be the bioinsecticide that you didn't know you were missing. Learn much more at www.bioworksinc.com where a skilled technical support team is available to help you achieve success.

Vegetable Seed

Rijk Zwaan Seeds Cucumber Updates

Cervello RZ

Cervello RZ is an early spring variety with a planting period of Dec. 15 through mid-February. The plant characteristic are a very nice and open plant with easy fruit setting. The leaves are small. Because of this, we will normally advise a vigorous growing climate. Low pre-nights are not normally necessary for Cervello RZ. The open plant character makes Cervello RZ a very labour friendly variety. Cervello RZ is a high producing variety with very good fruit quality including deep ribbing and dark green shiny fruit. It is also strong against burnt heads, strong against Pythium and has medium tolerance to Powdery Mildew. Fruit size range is medium to large on average.

24-257 RZ

This is a very new and exciting variety for Rijk Zwaan which has been in trials in 2017. 24-257RZ brings together high CGMMV resistance, high mildew tolerance as well as partial blue leaf genetics (which allows for better usage of high levels of sunshine and is widely used in Spain and Australia). The result is a



higher producing variety with improved fruit quality characteristics and slightly improved length when compared with our standard variety Verdon RZ.

24-257RZ will be available for expanded trials in 2018 and is recommended for traditional low wire crops. The planting period advised is mid-February through September.

24-252 RZ

24-252RZ is a potential variety for high wire cucumber production. It has high tolerance to mildew, high tolerance to CGMMV and has partial blue leaf genetics as well. The plant type is strong and open with very little abortion. Compared to our standard variety Verdon RZ, we see better balance in the plant with less abortion and higher production, slightly smaller fruit size and similar fruit quality.

24-252RZ will be available for expanded trials in 2018 and is recommended for high wire crops. The planting period advised is mid-February through September, and we are currently investigating its potential in crops with artificial lighting.

Substrates

RichGROW Coco Fiber

RichGROW Coco Fiber, available exclusively at TerraLink, is a premium coco product. RichGROW brand coco fiber is 100% natural with no chemicals added during processing. Grown in Sri Lanka,

coconuts are a renewable resource with a low carbon footprint. RichGROW coco fiber is a premium quality product that is known for its low EC levels. Growers can be confident in consistent quality from batch to batch.

RichGROW Coco is available wrapped or unwrapped in slabs, and 5 kg bricks for soil mixing and propagation cubes. Both slabs and 5 kg bricks are available in a variety of textures, 100% fines, 100% chips or a blend of the two. Coco fiber provides more water distribution through the soil mix, improves aeration and won't break down over time. TerraLink can import this high quality product as washed or unwashed depending on your needs.

Coco Grow Xtreme Buffered distributed by TerraLink Horticulture and manufactured by Go Green Coco Fiber, is a premium coconut coir from Sri Lanka with ultra-low EC and free of harmful viruses or soil diseases. 100% natural coco coir is washed and buffered with calcium nitrate for optimum results. Coco Grow Xtreme Buffered has an excellent water / air ratio that provides ideal growing conditions and is professionally processed to retain anti-fungal and anti-pathogen benefits that suppress Pythium root rot and other organisms that are harmful to healthy roots. Coco Grow Xtreme Buffered 50L loose fill is ready to use, just fill your containers and plant. Coco Grow Xtreme Buffered coir is 100% natural and sustainable.

Registered Pest & Disease Control Products

TerraLink Horticulture Inc. with partners Plant Product Ltd distribute professional grower supplies in Canada from coast to coast. Both companies are privately owned and have been established for multiple generations. We are “science first” based companies, our goal is to provide the professional grower with crop input technology. We strive to fairly and honestly represent the science of horticulture products such as media, nutrition, crop protection, while bringing value to the grower/entrepreneur. The following crop protection

products are currently registered for use in Canada on medicinal plant crops. All these products are in stock and all have been successfully used on various greenhouse food crops. Please read the label on all crop protection products, as it is the only and final guide for use.

More information about the products we offer for medicinal plant growers are listed on our Medicinal Plant Product Guide.



Product	SKU #	Description	Certification	Size
Actinovate SP**	1000450	Streptomyces lydicus Biofungicide (special order item)	OMRI Listed*	504 g
Agroteck Ascend™ Vaporized Sulphur	1000940	A very effective, economical sulphur product for the control of powdery mildew in various greenhouse crops. The only sulphur product registered for vaporization in Canada. It is easily applied using a sulphur vaporizer. Active Ingredient: Sulphur 99.9%		22.68 kg
Biological Controls	various	Control for Aphids, Caterpillars, Fungus Gnats, Root Weevils, Leafminers, Spider Mites, Thrips, and Whiteflies: Please order by 12 PM Wednesday to ensure delivery the following week	n/a	various sizes
Bioprotec CAF	1004100	A biological foliar insecticide composed of Btk (<i>Bacillus thuringiensis</i> ssp. <i>kurstaki</i>) to control lepidopteran larvae (caterpillars). Resistant to UV light, Bioprotec CAF will last for up to 8 days on the leaves of all types of plants.	Organic	10 L
BotaniGard ES	1004310	BotaniGard contains live spores of the naturally occurring fungus, <i>Beauveria bassiana</i> Strain GHA. BotaniGard is formulated as a wettable powder and as an emulsifiable suspension mycoinsecticide. It is formulated to control whiteflies, aphids and thrips.	Organic	1L
BotaniGard WP	1004320			500 g
Influence LC	1103365	A liquid concentrate biological fungicide based on garlic. It is registered for the suppression of powdery mildew.		10 L
Kopa**	1104040	Insecticidal soap, potassium salts of fatty acids	OMRI Listed*	10 L
MilStop Foliar**	1246480	Potassium bicarbonate fungicide	OMRI Listed*	2.27 kg
	1246481		OMRI Listed*	11.35 kg
Rootshield WP** (also available as HC formulation)	1202250	RootShield WP is a bio-fungicide that protects roots from the pathogens <i>Pythium</i> , <i>Rhizoctonia</i> , and <i>Fusarium</i> when applied as a drench to potting mixes or soil. Can also be applied as a foliar spray to strawberries, tomatoes, ornamentals, lettuce and cannabis for suppression of botrytis.	Ecocert Canada Organic Certification	0.453 kg
	1202240			1.36
	1202260			13.6 kg
Vegol Fungicide/ Insecticide	1210070	A broad spectrum, contact insecticide, miticide and fungicide that controls a wide variety of insects, mites, and scale including powdery mildew. Active Ingredient: Canola Oil 96%	OMRI Listed*	10 L

* To the best of our knowledge, many of these products meet the Canadian organic standards set forth in CAN/CGSB-32.310 and CAN/CGSB 32.311 Please remember, if you are using a product for certified organic production, be sure to check with your certifying agency before use. OMRI listings were current at the date of printing, however the OMRI list is updated bi-monthly and subject to change. To verify a product's status check online at www.omri.org. Products marked with two asterisks (**) are organic.



Plant-Prod MJ™

HIGH PRODUCTIVITY PLANT NUTRITION

Introducing **Plant-Prod MJ™**, a complete line of fertilizers designed to bring our 70 years of experience to the cannabis growers of today. Plant-Prod is excited to provide licensed growers of medical marijuana products that are scientifically optimized, consistent and completely soluble.

Plant-Prod® has always been dedicated to producing the most innovative, highest quality water soluble fertilizers on the market. The exclusive TURBO process™ and the continuously monitored quality control systems are firsts in the industry. In many countries, customers consider Plant-Prod to be the standard for quality and consistency.

What sets Plant-Prod MJ™ apart from traditional cannabis plant nutrition programs?

- Simple yet scientific – Removing unnecessary complexities found in past cannabis feeding programs, while still delivering expert results.
- High quality sourcing – Undesirable elements and compounds, such as chlorides which are common in many high analysis fertilizers, are not found in Plant-Prod at agronomic levels.
- Optimized, consistent and completely soluble – Samples are continuously monitored to ensure that all levels of both major and minor elements are met and all other specifications are within our tightly defined limits.



“Many of the fertilizers targeted to growers in the past have been formulated with ‘secret’ and ‘magic’ ingredients but without a deep understanding of the accumulated science and experience of horticulturalists and agronomists,” states Doreen Andrea, Plant-Prod’s General Manager. “We have 70 years of experience in formulating soluble fertilizers made from extremely high-quality nutrients and chelating agents that have enabled sophisticated growers to maximize productivity. We are now providing that expertise to licensed growers of marijuana so they can maximize productivity and deliver products within the tight specification required by regulatory and medical bodies.”

Plant-Prod fertilizers are distributed by TerraLink Horticulture Inc. TerraLink of Calgary AB, Abbotsford and Delta BC have been supplying the professional greenhouse and farm markets in western Canada since 1973. We welcome your inquiries, here’s how to contact us:

TerraLink

464 Riverside Rd., Abbotsford, BC
1-800-661-4559

Bay R 1350 42nd Ave. SE, Calgary, AB
403-993-4972