



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

December 4, 2015

Joel Kroin
President
Hortus USA Corp.
245 West 24th Street
New York, NY 10011

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Updated,
clarified PPE statement
Product Name: Hortus IBA Water Soluble Salts (20%)
EPA Registration Number: 63310-22
Application Date: 30 October 2015
OPP Decision Number: 510962

Dear Mr. Kroin:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

At this time, the U.S. Environmental Protection Agency (EPA) is not requiring a change to the restricted-entry interval (REI) of 0 hour as it appears on your labeling in the Agricultural Use Requirements Box. The EPA is currently developing guidance and criteria for when it will allow a REI of less than 4 hours and might require a change to the REI for this product in the future. This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(e).

40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Cody Kendrick of my team by phone at (703) 347-0468 or via email at kendrick.cody@epa.gov.

Sincerely,

A handwritten signature in blue ink that reads "Andrew C. Bryceland". The signature is fluid and cursive, with the first name being the most prominent.

Andrew Bryceland, Team Leader
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosure

Hortus IBA

Water Soluble Salts® (20%)

Plant Rooting Hormone

Dissolve Salts in Water to Make Rooting Solutions.

Use by Foliar and Basal Methods on Plants That Can Be Propagated from Cuttings.

Use on Annual, Perennial, and Woody Ornamental Plant Cuttings.

Ingredients:

Active ingredients

Indole-3-butyric acid 20.0%

Other ingredients 80.0%

Total 100.0%

Registered by Hortus USA Corp., NY NY 10011

Made in Holland.

EPA Reg No. 63310-22

EPA Est No. 63310-HL-001

Net Wt: 3.5 ounces, or 8.8 ounces, or 2 Pounds 4 Ounces
(100 grams, or 250 grams, or 1 Kilo)

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Attached Label for First Aid and Precautionary Statements

Use Hortus IBA Water Soluble Salts (20%) to make rooting solutions. The Salts dissolve easily in water to over 100,000 ppm IBA. Use the solutions to propagate new plants from cuttings. Treated cuttings are expected to produce uniform roots all around the basal end.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS.

CAUTION

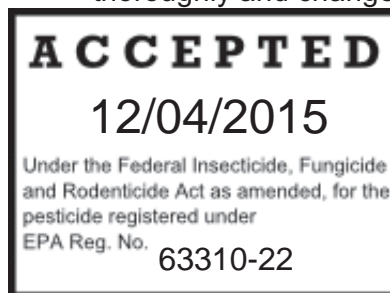
Causes moderate eye irritation. Harmful if inhaled or absorbed through the skin. Avoid contact with eyes, skin, ingestion or inhalation. Avoid breathing dust (vapor or spray mist). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: long sleeve shirt, long pants, shoes, socks and waterproof gloves. For exposure in enclosed areas or outdoors, use a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C, or a NIOSH approved respirator with any N, R, P or HE filter) when mixing solutions, or when spraying solutions on cuttings by the Spray Drip Down Method. When treating cuttings by the Quick Dip, Long Soak and Total Immerse Methods, use of a filtering respirator is not required. No PPE is required after cuttings are inserted into media.

USER SAFETY RECOMMENDATIONS

Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.



FIRST AID

Classification of Pesticide: Plant Growth Regulator

If in eyes	<ul style="list-style-type: none">> Hold eyes open and rinse slowly with water for 15-20 minutes> Remove contact lenses, if present after the first 5 minutes then continue rinsing eye> Call a poison center or a doctor for further treatment or advise
If on skin or clothing	<ul style="list-style-type: none">> Take off contaminated clothing> Rinse skin immediately with plenty of water for 15-20 minutes> Call a poison center or a doctor for further treatment or advise
If swallowed	<ul style="list-style-type: none">> Call a poison center or a doctor for further treatment or advise> Have person sip water if able to swallow> Do not induce vomiting unless told to do so by the poison control center or doctor.> Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none">> Move person to fresh air> If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth, if possible> Call a poison center or a doctor for further treatment or advise

NOTE TO PHYSICIAN: May cause moderate eye irritation which will last a short time. This product does NOT contain any petroleum, caustics or active solvent products

Have the product container or label with you when you call a poison control center or doctor or going for treatment. You may call 314-770-0717. 7:30AM-5PM CST Mon-Fri or the National Pesticide Information Center (NPIC) at 1-800-858-7378

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with labeling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product in accordance with its labeling and with the Worker Protection Standard, 40 CFR 170. This Standard contains requirements for the protection of agricultural workers on farms, forests nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this labeling about personal protective equipment and restricted-entry intervals. The requirements in this box only apply to the uses of this product that are covered by the Workers Protection Standard (WPS).

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

**THE RESTRICTED-ENTRY INTERVAL (REI)
FOR THIS PRODUCT IS "0" HOURS.**

You may also call 314-770-0717 for an SDS. 7:30AM-5PM CST M-F

RATE DETERMINATION

A wide solution rate range is indicated for this product. Your ideal rates will vary according to specific plant variety, season, quality of the cuttings, and local growing conditions. Prior to large scale production, test a few plants at several rates within the range. If foliar application causes phytotoxicity, try basal applications and/or decrease rates. Use the lowest rate to produce the desired effect.

PREPARING A HORTUS IBA WATER SOLUBLE SALTS® (20%) SOLUTION USING WATER

- 1) Weigh the required amount of Hortus IBA Water Soluble Salts. Measure by weight not volume.
- 2) Use tap water at about 65-90F; measure less than the final volume.
- 3) Mix: dissolve Hortus IBA Water Soluble Salts in the water.
 - If precipitation occurs with tap water then dissolve in distilled, demineralized, or filtered water.
 - Do not dissolve Hortus IBA Water Soluble Salts in solvents other than water.
- 4) Add water to the mixing container to bring the solution to the final volume.
- 5) Apply the solution by the selected method.
- 6) After use, dispose of the solution as described in the 'Storage and Disposal' statements on this label.
 - For the Total Immerse and basal methods, dispose of solutions between plant lots to avoid cross contamination.
 - Stock solutions can be made in any concentration, to over 100,000 ppm IBA, using Hortus IBA Water Soluble Salts mixed in water.

AMOUNT OF HORTUS IBA WATER SOLUBLE SALTS® REQUIRED

- Hortus IBA Water Soluble Salts contain 20% IBA.
- 1 gram technical IBA = 5 grams Hortus IBA Water Soluble Salts
- Note: 1 gram = 0.035 ounce

LIQUID VOLUME CONVERSION:

- liters to gallon: (grams Salts /liter) x (3.78) = (grams Salts /gallon)

LITERS:

- To get 1000 ppm IBA: dissolve 5 grams of Hortus IBA Water Soluble Salts in water to make 1 LITER

GALLONS:

- To get 1000 ppm IBA: dissolve 18.9 grams of Hortus IBA Water Soluble Salts in water to make 1 GALLON

HOW TO MAKE RATES FROM 100 TO 10,000 PPM IBA USING HORTUS IBA WATER SOLUBLE SALTS®

ppm IBA	Weight of Hortus IBA Water Soluble Salts	
	grams per liter of water	grams per gallon of water
100	0.5 grams	1.9 grams
200	1.0	3.8
300	1.5	5.7
400	2.0	7.6
500	2.5	9.5
600	3.0	11.3
700	3.5	13.2
800	4.0	15
900	4.5	17
1,000	5.0	18.9
5,000	25.0	95
10,000	50.0	190

PROMOTE ROOTING OF PLANT CUTTINGS

Use to propagate new plants from cutting, from those easy to root to the most difficult to root.

EASY STEPS

- Take plant cuttings, usually stem cuttings.
- For woody cuttings usually wound by making a 3/4" long notch at basal end.
- Apply solutions to plant cuttings by the methods listed below. (Do not apply the dry Salt powder to the plant cuttings.)
- Take care of cuttings as appropriate for the plant variety. Control watering, temperature, humidity, light and other environmental factors. Observe and control external factors such as insects and fungus.
- Use the minimum concentration to achieve results; excess concentration may inhibit root formation.

BASAL METHODS FOR USE ON CUTTINGS IN THE GROWING SEASON AND ON DORMANT WINTER CUTTINGS

BASAL LONG SOAK METHOD

Use on cuttings in the growing season and winter dormant cuttings.

- Immerse basal end of cuttings approximately 1" in solution for 12 to 48 hours.
- Stick immediately or store.

Trial Rates are ppm IBA using Hortus IBA Water Soluble Salts

	Trial Rates
Hard to root annuals and perennials	25-100
Herbaceous cuttings	50-200
Woody ornamental cuttings, grape, roses	50-400

QUICK DIP METHOD

Use on cuttings in the growing season and winter dormant cuttings.

- Immerse basal end of cuttings approximately 1" in solution a few seconds.
- Stick immediately or store.

Trial Rates are ppm IBA using Hortus IBA Water Soluble Salts

	Trial Rates
Annuals, soft perennial, tender cuttings from ornamental plants, tropical hose plants	80-200
Herbaceous, perennials, pot roses cuttings	150-1500
Difficult to root herbaceous, perennials, tropical hose plant cuttings	500-1500
Softwood cuttings	500-1500
Hardwood cuttings	500-2000
Difficult to root hardwood cuttings (Avoid high rates by using the Basal Long Soak Method)	2000-10,000

FOLIAR METHODS FOR USE ON LEAFY CUTTINGS IN THE GROWING SEASON

TOTAL IMMERSE METHOD

Use on leafy cuttings in the growing season

- Total immerse the cuttings in the solution for about 5 seconds. A basket is useful.
- Stick immediately or store.

SPRAY DRIP DOWN™ METHOD

Use on leafy cuttings in the growing season

- Stick cuttings.
- Spray the solution on leaves and stems until the solution drips down into media.

TRIAL RATES FOR THE TOTAL IMMERSE AND SPRAY DRIP DOWN™ METHODS

Trial Rates are ppm IBA using Hortus IBA Water Soluble Salts

	Trial Rates
Annuals, perennials, chrysanthemums	80-250
Herbaceous and hard to root perennial plant cuttings	250-1500
Woody ornamental cuttings	300-1500

IMPROVE PLANT GROWTH

Use on rooted plants and leafy plant cuttings in the growing season to develop uniform crops, when propagating plants from cuttings after sticking by any method, or when transplanting.

- Method: Spray Drip Down™ Method: Spray the solution onto the leaves of plants until the solution drips down.
- Rates: Use the Spray Drip Down™ Method trial rates listed above. Use the lowest concentration to produce the desired effect.
- Frequency: Weekly or until the required results are achieved.
- Trials: Do small trials prior to doing large scale production.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage

Store in a cool dry place under lock and key. Post as a pesticide area. Always store pesticides in the original container. Store away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Place liquid formulations on lower shelves and dry formulations above.

Pesticide Disposal

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

Container Handling

Nonrefillable container. Do not reuse or refill this container.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.

WARRANTY

It is warranted that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with the directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of application all of which is beyond the control of Rhizopon b.v. or Hortus USA Corp. To the extent consistent with applicable law, Rhizopon or Hortus USA shall not be liable for consequential, special or indirect damages resulting from the use or handling of this product. To the extent consistent with applicable law, all risks shall be assumed by the buyer. Rhizopon or Hortus USA make no warranties of merchantability or fitness for a particular purpose nor other express or implied warranty except as stated above.

For additional information visit our website:

rooting-hormones.com

Hortus USA Corp., PO Box 1956, New York, NY 10113

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