



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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

July 5, 2019

Dr. Matthew Brooks  
Regulatory Consultant  
Intercontinental Import Export S.A. DE C.V.  
c/o Ag-Chem Consulting  
12644 Chapel Road, Suite 108  
Clinton, VA 20154

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Revision to the direction for use section of the label, so as not to exceed the contents of the package.  
Product Name: Radix  
EPA Registration Number: 89361-2  
Application Date: 04/10/2019  
OPP Decision Number: 550151

Dear Dr. Brooks:

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

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 U.S. Environmental Protection Agency (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

Page 2 of 2  
EPA Reg. No. 89361-2  
OPP Decision No. 550151

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 James Parker by phone at (703) 306-0469 or via email at [parker.james@epa.gov](mailto:parker.james@epa.gov).

Sincerely,



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

Enclosure



**Plant Growth Regulator  
Water soluble Tablets**

**ACCEPTED**

07/05/2019

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 89361-2

For application in transplanted vegetables or directly sown grains, fodder, fruits, forestry and pasture, to promote the overall development of seedlings and accelerate the recovery of the plant after transplantation and / or seeding by inducing development of lateral roots. For indoor or outdoor use.

**ACTIVE INGREDIENT:**

Indole-3-Butyric Acid (4-(1 H-indol-3-yl)butyric acid).....35.0%  
 OTHER INGREDIENTS:.....65.0%  
**TOTAL**.....100.0%

Refer to accompanying booklet for complete labeling including additional precautionary language, first aid, storage and disposal and complete use directions

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

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

**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For 24-hour medical assistance call **1-800-222-1222**.

EPA REG. No. 89361-2

EPA EST. No 89361-MEX-1

**Net Weight: 0.6 oz. (17.2 grams) One 2 Tablet Packet      OR**

**Net Weight: 3.6 oz (103.2 grams ) One Box containing 6 packets (12 tablets)**

Batch No.

**Manufactured by  
Intercontinental Import Export, Salamanca, Mexico**

## **PRECAUTIONARY STATEMENTS HAZARDS TO HUMAN AND DOMESTIC ANIMALS**

**CAUTION.** Harmful if swallowed, absorbed through skin, or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing before reusing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Wear the appropriate PPE:

- Coveralls (over long-sleeved shirt and long pants)
- Chemical-resistant footwear
- Chemical-resistant gloves
- Goggles
- Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N,R,P or HE filter.

Remove and wash contaminated clothing before reusing.

### **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 when cleaning equipment or disposing of washwaters or rinsate.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

This product may be applied alone, as a tank mix and through chemigation. Always dissolve tablets in water prior to any application.

## **Chemigation Directions:**

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; flood (basin); furrow; border or drip (trickle)] irrigation & system(s). Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place."

## **SPRINKLER CHEMIGATION SAFETY REQUIREMENTS**

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system(s) designated above must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

"The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump."

"The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down."

"The system must contain functional inter-locking controls to automatically shut off the pesticide injection pump when the water pump motor stops."

"The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected."

"Systems must use a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock."

Do not apply when wind speed favors drift beyond the area intended for treatment

**Recommendations:**

The vegetative propagation, rates of success of rooting cuttings will be partly dependent of external conditions (humidity, temperature, light, clean media, etc.).

Unless otherwise stated below, prior to application, be sure to completely dissolve each tablet in at least one quart of water and then add it to application equipment, tank mix or chemigation system.

<b>Crops</b>	<b>Rate</b>	<b>Timing</b>	<b>Method</b>
<b>Agave</b> (Agave Teguilana)	1 tablet dissolved in 1 quart of water (3000ppm)	"Seed" treatment before sowing	Spray over the base of the cutting
	1 tablet dissolved in 26 gal of water (30ppm)	Apply every 4 months	Soil Drench 3.4 fl oz (100ml) per plant
<b>Garlic</b> (Allium sativum)	1 tablet dissolved in 52 gal of water (15ppm)	"Seed" treatment	"Seed" immersion for 30 minutes.
	1 Tablet per 2.5 acre	30 days after sowing	Foliar application, spray watering or trickle irrigation
<b>Onion</b> (allium cepa), <b>Carrot</b> (Daucus carota)	2 Tablets per 2.5 acre	30 days after sowing	Foliar application, spray watering or trickle irrigation.

<b>Crops</b>	<b>Rate</b>	<b>Timing</b>	<b>Method</b>
<b>Banana</b> ( <i>Musa paradisiaca</i> )	Dissolve 1 Tablet in 8 gal of water (100ppm)	Apply every 4 months	Apply on the corm or by soil drench with 2.71 to 3.38 oz. per plant
<b>Broccoli</b> ( <i>Brassica oleracea</i> var. <i>italic</i> ) <b>Cabbage</b> (var. <i>viridis</i> ) <b>Cauliflower</b> (var. <i>Botrytis</i> ), <b>Lettuce</b> ( <i>Lactuca sativa</i> )	In seedling production greenhouses: dissolve 1 tablet in 30 gal of water (26 ppm)	Before sowing in the cultivating media	Moisten the cultivating media before sowing and before filling the trays
	1- 2 Tablets per 2.5 acre	7-13 days after transplanting	Foliar application, spray watering or trickle irrigation
<b>Squash</b> ( <i>Cucurbita pepo</i> ) <b>Melon</b> ( <i>cucumis melo</i> ) <b>Cucumber</b> ( <i>cucumis sativus</i> ) <b>Watermelon</b> ( <i>citrullus lanatus</i> )	1-2 Tablets per 2.5 acre	7-13 days after transplanting	Foliar application, spray watering or trickle irrigation
<b>Bell Pepper</b> ( <i>Capsicum annum</i> ) <b>Tomatoes</b> ( <i>Licopersicum esculentum</i> )	2 Tablets per 1.25 acre in four applications of half a tablet each per 1.25 acre	Applications on the 10, 40, 130 and 190 days after transplanting	Foliar application, spray watering or trickle irrigation

<b>Crops</b>	<b>Rate</b>	<b>Timing</b>	<b>Method</b>
<b>Barley</b> (hordeum vulgare) <b>Maize</b> (Zea mays) <b>Wheat</b> (triticum aestivum) <b>Sorghum</b> (sorghum vulgare)	2 Tablets per 2.5 acre	30-40 days after emergence of plant	Foliar application, spray watering or trickle irrigation
<b>Asparagus</b> (Asparagus officinalis)	1 Tablet per 2.5 acre	Apply every 4 months	Foliar application, spray watering or trickle irrigation
<b>Strawberry</b> (Fragaria vesca) <b>Raspberry</b> (Rubus ideaus) <b>Blackberry</b> (Rubus fruticosus)	Dissolve 1 tablet in 52 gal of water (15 ppm)	Before sowing	Immersion of the stolons between 2 to 8 hours
	1 Tablet per 2.5 acre	30, 90, 150, and 210 days after sowing	Foliar application, spray watering or trickle irrigation
<b>Potatoes</b> (Solanum tuberosum)	Dissolve 1 tablet in 52 gal of water (15ppm)	"Seed" treatment	Spray over the "seed" or quick dip the "seed"
	1 Tablet per 2.5 acre	30 to 40 days after sowing	Foliar application, spray watering or trickle irrigation
<b>Turf Pastures and Range Lands</b>	1 Tablet per 2.5 acre	Apply every 30 to 60 days	Foliar application, spray watering or trickle irrigation.



<b>Crops</b>	<b>Rate</b>	<b>Timing</b>	<b>Method</b>
<b>Avocado</b> (Persea Americana) <b>Apple</b> (Malus domestica) <b>Mango</b> (Mangifera indica) <b>Walnut</b> (Juglans regia) <b>Grapes</b> (Vitis vinifera) <b>Coffee</b> (coffea arabica) <b>Cocoa</b> (Theobroma cacao) <b>Citrus Fruits</b>	Dissolve 1-2 Tablet in 0.5 gal of water (1500-3000 ppm)	Within minutes of the cuttings being cut. During the appropriate season.	Quick dip on the cutting end of the rootstock cuttings
	1 to 2 Tablets per 1.25 acre or dissolve 2 tablets in 26.5 gal of water (60ppm)	Apply every 3 to 4 months	Foliar application, spray watering or trickle irrigation or Soil drench 3.4 fl oz. (100 ml) per plant of the 60-ppm solution
<b>Papaya</b> (carica papaya)	Dissolve 2 Tablets in 52 gal of water (30ppm)	Apply every 30 to 60 days	Soil drench 6 fl oz. (180 ml) per plant
<b>Pineapples</b> (ananas comosus)	2 Tablets per acre	30 to 45 days after sowing	Foliar application, spray watering or trickle irrigation.

	<b>Rate</b>	<b>Timing</b>	<b>Method</b>
<b>Rooted cuttings</b>	1 Tablet dissolved in 26 gal of water (30 ppm)	10 to 15 days after transplant and every 60 days	Drench or foliar application in between 1.7 to 3.4 fl oz (50 to 100 ml) of dissolution per plant
<b>Vegetative propagation of cuttings</b>	1 tablet in 3 gal (250 ppm) to 2 tablets in 1/2 quart (12000 ppm) depending on size of the cutting and species. Trials and literature are recommended for precise information on ideal concentrations	Within minutes of the cuttings being cut.	Quick dip on the cutting end

### **STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Do not store with foodstuff.

**PESTICIDE DISPOSAL:** Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or, by other procedures approved by state and local authorities.

### **WARRANTY STATEMENT**

Intercontinental Import Export warrants 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 directions under normal use conditions. It is impossible to eliminate all risks inherently associated with 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 use or application, all of which are beyond the control of Intercontinental Import Export. To the extent consistent with applicable law, Intercontinental Import Export shall not be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. To the extent consistent with applicable law, the exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall not exceed the purchase price paid for this product or at Intercontinental Import Export election, the replacement of this product. Intercontinental Import Export MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.