

69834-10

11-21-2006

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511P)
1200 Pennsylvania Avenue NW
Washington, DC 20460

NOTICE OF PESTICIDE REGISTRATION

☒ Registration
☐ Reregistration

(under FIFRA, as amended)

EPA Reg.
Number:
69834- 10

Date of Issuance:
NOV 21 2006

Term of
Issuance:

Unconditional

Name of Pesticide Product:

EBC- 281

Name and Address of Registrant (include ZIP Code):

EDEN Bioscience Corp.
111 Cathedral St. #301
Annapolis MD 21401-2703

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This registration does not eliminate the need for continual reassessment of the pesticide. If EPA determines at any time, that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA.

This product is registered in accordance with FIFRA section 3(c)(5) and is subject to the following terms and conditions

Submit/cite all data required for registration of your product under FIFRA § 3(c)(5) when the Agency requires all 1 registrants of similar products to submit such data.

2. Submit two (2) copies of the revised final printed labeling before you release the product for shipment. Refer to attached Type Size Requirements for final printed labeling.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

Janet L. Andersen

Date:

NOV 21 2006

Janet L. Andersen, Ph.D., Director

CONCURRENCES

SYMBOL Biopesticides and Pollution Prevention Division (7511P)

SURNAME EPA Form 8570-6

DATE

EPA Form 1320-1A (1/90)

Printed on Recycled Paper

OFFICIAL FILE COPY

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EBC-281 Master Label Index

Section A: Agricultural Use
Section B: Non-Agricultural Use

Section A. Agricultural Use

EBC-281

Water Soluble All Purpose Plant Food

X-X-X plus micronutrients
with Harp-N-Tek Plant Health Regulator

[OPTIONAL TAG LINES – For use individually or in combination on labels: Increases plant stamina and vigor; Plant Health Regulator; Suppresses nematode egg production; Enhances crop growth, quality and yield; Aids in management of postharvest diseases; Reduces Tobacco Specific Nitrosamines (TSNAs); Reduces transplant shock; Harp-N-Tek[®] inside [LOGO]; Harp-N-Tek is Eden's trademark for its proprietary harpin protein technology.]

ACTIVE INGREDIENT:

Harpin $\alpha\beta$ Protein: 0.1%

OTHER INGREDIENTS: 99.9%

Total: 100%

EPA Reg. No. 69834-xx EPA Est. No. 69834-WA-001

ACCEPTED
NOV 21 2006
69834-10

KEEP OUT OF REACH OF CHILDREN
CAUTION
PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you.)

Net Weight:

Eden Bio-Science Corporation
10000 Highway North, Bethel, ME 04215
1-800-898-2436 • www.edenbio.com

Read the entire label before using this product.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using.
If terms are not acceptable, return at once unopened.

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS & DOMESTIC ANIMALS

CAUTION

Causes eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

FIRST AID

If in eyes: - Flush with plenty of water. Get medical attention if irritation persists.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes and socks.
- Particulate dust mask, when mixing.

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using toilet.

ENVIRONMENTAL HAZARDS

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 equipment wash waters.

DIRECTIONS FOR USE

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 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 label about personal protective equipment (PPE), notification to workers, and restricted entry interval. The requirements in this box apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plant, soil, or water is:

- Coveralls;
- Waterproof gloves; and
- Shoes and socks.

[OPTIONAL TEXT – Paragraphs for use individually or in combination on labels]

PRODUCT INFORMATION

EBC-281 promotes vigorous plant growth, visual crop quality, nutrient health and crop production.

EBC-281 stimulates the plant's natural growth and defense systems, enhancing overall plant health. Healthier plants exhibit increased plant stamina and vigor, leading to one or more of the following benefits: suppression of nematode egg production, increased marketable yield, enhanced quality, extended shelf life, and improved transplant establishment and recovery.

EBC-281 is a new tool for use in Integrated Crop Management (ICM) Product efficacy is based on its ability to activate the plant's own internal defense and growth mechanisms and supply incremental nutrients at critical growth stages of crop production. [EBC-281 works best when used in conjunction with good crop management practices]

GENERAL INSTRUCTIONS

PRODUCT USES

Use EBC 281 as a foliar spray to supplement soil fertility programs. At recommended rates it does not supply all the fertility needs of a crop.

[OPTIONAL TEXT – Paragraphs for use individually or in combination on labels]

Use EBC-281 to increase plant health and vigor, to assist in the management of certain diseases and to enhance crop quality and marketable production; Use EBC-281 to extend shelf life through pre-harvest applications. Use EBC-281 to overcome transplant shock; Use EBC-281 at any growth stage when incremental nutrients are needed; Use EBC-281 at bloom stage to help with nutrient uptake and fruit sizing. Post-bloom applications will help with nutrient uptake and fruit sizing. EBC-281 may be used safely on all plants when used as directed. EBC-281 provides instant feeding through the leaves and helps with nutrient uptake. EBC-281 is an ideal high phosphate blend

for promoting root growth, improving plant vigor, and increasing crop yield. EBC-281 is fortified with Iron EDTA and, magnesium and other essential micronutrients Use EBC-281 to promote boll fill].

USE SITES AND CROPS

EBC-281 may be used for greenhouse, shadehouse, nursery, indoor and outdoor home and garden, and field production on all plants listed on this label. This includes use on plants in non-crop areas such as schoolyards, public parks and gardens, in-door plants, and other public areas. [OPTIONAL TEXT: EBC-281 is intended for use by commercial growers, the turf and ornamental industry, and home gardeners.

DAYS TO HARVEST

EBC-281 may be applied up to or after harvest.]

USE ADVISORIES

TANK MIXING

Use in Mixtures: EBC-281 may be tank mixed with most other labeled pesticides, such as post-emergence herbicides, insecticides, acaricides, and fungicides, as well as most foliar nutritional products, to enhance application efficiency. This product cannot be mixed with any product containing a label prohibition against such mixing. When tank-mixing EBC-281 with any other approved pesticide, always read and follow all use directions, restrictions, and precautions of both EBC-281 and the tank mix partner(s). The resulting tank mix must be in accordance with the more restrictive label limitations and precautions. No label dosage rates may be exceeded.

Precautions: Do not use EBC-281 in tank mixes or water below pH 4.5 or above 10.0. Do not mix this product with pyrophosphates, phosphoric acid, or other strong oxidizers. Do not use with dormant oils, lime sulfur or spray lime.

Surfactants: Only non-ionic adjuvants that have been approved for use on growing and harvested crops may be used.

CROP DAMAGE

Like any other foliar nutrient, crop damage may occur if EBC-281 is applied when temperatures are too hot. Apply when temperatures and other environmental conditions are suitable based on your experience with foliar nutrients. [OPTIONAL TEXT – Only apply EBC-281 to the leaves (foliage) of indoor plants that are not sensitive to liquid applications.]

SPRAY DRIFT

Avoiding spray drift at the application site is the responsibility of the applicator. The interactions of many equipment and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering these factors when making decisions.

MIXING INSTRUCTIONS

Fill sprayer at least half full of water and start agitation before adding EBC-281. Dissolve 530 lbs. EBC-281 in 5-200 gallons of water. Concentration should not exceed 1 lb. per gallon. Allow extra time to dissolve in tanks without agitation or when very cold water is used.

APPLICATION INSTRUCTIONS

Apply EBC-281 as a foliar treatment, including pre-harvest foliar application for post harvest benefits. Applications should be made based on plant needs and production goals. Apply 5 to 30 pounds EBC-281 per acre as a foliar spray on all crops (5 to 30 kg/ha). Apply in enough water to ensure good crop coverage. Applications may begin early in the season. Repeat applications can be made on a 14 to 28 day interval, taking weather conditions into consideration. Proper spray techniques and good coverage are necessary for best performance. For aerial spray use 1 pound per gallon. [OPTIONAL TEXT – For backpack sprayer use 4 teaspoons per gallon (6g/L). For transplants, use 530 lbs. per 100 gallons. EBC-281 may also be applied as a root dip or soil drench. Apply as a root drench for indoor plants that are sensitive to liquid applications.]


Application via Sprinkler, Drip, or Chemigation Systems: General Statements: EBC-281 may be applied through most sprinkler, drip, or chemigation systems. Crop injury or lack of effectiveness can result from the non-uniform distribution of treated waters. Refer to the Tank Mixing Use Advisory and Mixing Instructions for directions on dilution and agitation of EBC-281 in the pesticide supply tank. Apply EBC-281 at the end of the water application. If you have questions about your system's calibration, you should contact State Extension Service

Specialists, equipment manufacturer or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system. A person knowledgeable about 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.

System Requirements: The system 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 interlocking 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 that 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.

[OPTIONAL TEXT – Crop listings to be used individually or in combination on labels:

EBC-281 may be used on all plants, including the following:

<u>Field Crops</u>	<u>Berries and Small Fruit</u>
LEGUMES COTTON FORAGE CROPS (Grass, Hay, Non-grass) CORN (grain, silage, seed or popcorn) OIL AND SEED CROPS Flax ROOT CROPS RICE SMALL GRAINS SORGHUM SUGARCANE	All Types <u>Trees and Vines</u> AVOCADO CITRUSNUT TREESPOME FRUIT Apple Pear STONE FRUITVINE CROPS Grape (juice, raisin, table, and wine) Kiwifruit Hops TREES Conifer Broadleaf
<u>Vegetable and Other Crops</u>	<u>Turf and Ornamentals</u>
PERENNIAL VEGETABLES Artichoke Globe Artichoke Asparagus TUBER CROPS VEGETABLES Bulb, Root, Leafy, Cole Crop, Fruiting, Cucurbit, Okra, Legume SWEET CORN (fresh or seed) TOBACCO All types	All Types <u>Grasses Grown For Seed</u> TURF GRASSES FORAGE GRASSES
<u>Specialty Crops</u>	
ALOE BANANA COFFEE FIGS HERBS-All types MANGO PAPAYA PINEAPPLE TARO ROOT	

GUARANTEED ANALYSIS

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.html> FXXXX

STORAGE AND DISPOSAL

GENERAL

Do not contaminate water, food, or feed by storage and disposal. Close partially used bags and keep product away from exposure to air, sunlight, moisture, or heat.

STORAGE

Store dry and out of direct sunlight. Do not store in temperatures over 110° F for more than seven days.

DISPOSAL OF PRODUCT

Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

DISPOSAL OF CONTAINER

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

LIMIT OF WARRANTY AND LIABILITY

CONDITIONS OF SALE AND EXCLUSIVE WARRANTY

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness of the product, or other unintended consequences may result because of such factors as horticultural practices, use with other products (unless otherwise expressly provided in the Directions for Use of this product), presence of other materials, the manner of use or application, and various environmental conditions, including but not limited to weather conditions and moisture conditions. All of the aforementioned risks are beyond the control of EDEN BIOSCIENCE Corporation and to the extent consistent with applicable law, the Buyer shall assume all such risks.

EXCLUSIVE WARRANTIES

EDEN BIOSCIENCE Corporation warrants that at the time of first sale of this product it conforms to the chemical description on the label and under normal conditions is reasonable fit for the purposes referred to in the Directions for Use, subject to inherent risks referred to above. If this product does not perform as warranted above, customer's sole remedy for breach of that warranty shall be replacement of the product or refund of the purchase price paid, at the option of EDEN BIOSCIENCE Corporation. TO THE EXTENT ALLOWED BY LAW, THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, TERMS, OR CONDITIONS EXPRESSED OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING BUT NOT LIMITED TO WARRANTIES, TERMS, OR CONDITIONS OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND SATISFACTORY QUALITY.

LIMITATION OF LIABILITY

To the full extent allowed by law, EDEN BIOSCIENCE Corporation excludes for itself and its suppliers any liability, whether based in contract or tort (including negligence), for incidental, consequential, indirect, special, or punitive damages of any kind, or for loss of revenue or profits, loss of business, or crop injury arising out of or in connection with the sale, use, injury, performance, or failure of this product, even if EDEN BIOSCIENCE Corporation or its authorized reseller has been advised of the possibility of such damages, and limits its liability to replacement of the product or a refund of the purchase price paid, at the option of EDEN BIOSCIENCE Corporation. This disclaimer of liability for damages will not be affected if any remedy provided herein fails of its essential purpose.

ASSUMPTION OF RISK

Buyer and Users of this product assume the risk of any use contrary to the Directions for Use and/or all of the risks inherent in the use of this product as set forth above. EDEN BIOSCIENCE Corporation offers this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Exclusive Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of EDEN BIOSCIENCE Corporation.

PROMPT NOTICE OF CLAIM

EDEN BIOSCIENCE Corporation must have prompt notice as soon as Buyer or User has reason to believe they may have a claim (not to exceed twentyone days from the date of application) so that an inspection of the affected property and growing crops may be made. To the extent consistent with applicable law, unless Buyer and Users shall promptly notify EDEN BIOSCIENCE of any claims, they shall be barred from obtaining any remedy.

TANK MIXES

Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of User, Applicator, and/or Application Advisor. Read and follow the entire label of each product to be used in a tank mix with this product.

LIMITED USE LICENSE AND PATENTS

The contents of this package and/or the use of the contents are covered by U.S. Patent Nos. 5,849,868, 5,859,324, 5,776,889, 5,977,060, and 6,277,814 as well as pending patent applications. The purchase of this package grants the Buyer a license, under these patents and patent applications, to use its contents only for treating plants, plant seeds, and other plant parts as described herein.

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Section B. Non-Agricultural Use

EBC-281

Water Soluble All Purpose Plant Food

x-x-x plus micronutrients
with Harp-N-Tek Plant Health Regulator

[OPTIONAL TAG LINES – For use individually or in combination on labels and/or accompanying materials: Home, Yard & Garden; A Combination Plant Food and Biochemical Plant Activator For Healthier Plants; The Science Behind a Beautiful Garden; Promotes Plant Growth, visual crop quality, nutrient health and plant production; Helps Manage Disease For Home and Garden Use; For Healthier Plants; Healthier Plants; Better Blooms; Larger Harvests; Plant Health Regulator; Growth Stimulator; Easy to Use; Broad Spectrum; Promotes Plant Growth for Superior Gardens; Breakthrough Technology; Revolutionary; Effective; Economical; Delivering stronger and healthier plants; Increases root mass; Improves the health of every plant you grow! Improves the health of every plant in your garden! Improves the health of every plant you grow in your Garden! Fruits • Garden Flowers & Shrubs • House Plants • Vegetables; Boost overall growth and production; Improve plant stamina & vigor; Strengthen a plant's resistance to disease; Mix and Spray, or Simply Mix and Spray, or Mix and Spray Every Three Weeks, or Simply Mix and Spray Every Three Weeks; Harp-N-Tek[®] inside [LOGO]; Harp-N-Tek is Eden's trademark for its proprietary harpin protein technology]

ACTIVE INGREDIENT:

Harpin α Protein:0.1%

INERT INGREDIENTS:99.9%

Total:100%

EPA Reg. No. 69834-xx EPA Est. No. 69834-WA-001
[ALTERNATE RE-PACKER'S EPA Est. No.: 75447-CA-001]

KEEP OUT OF REACH OF CHILDREN CAUTION



Net Weight: _____

[OPTIONAL – Packed for:]

EDEN BIOSCIENCE Corporation • 11816 North Creek Parkway North
Bothell, WA 98011-8201
1-888-522-5976 [And/Or] www.messenger.info

[OPTIONAL] See Back Panel for additional precautionary statements

DIRECTIONS FOR USE

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

Harpin α , the active ingredient in EBC-281, is derived from naturally occurring harpin proteins. EBC-281 stimulates the plant's natural growth and defense systems, enhancing overall plant health. Use EBC-281 to boost overall plant growth, vigor, and production, and to aid in the management of disease.

EBC-281 may be used on all plants grown indoors and outdoors, including Roses and other Flowers, Vegetables, Fruiting Trees, Small Fruits, Berries, Vines, Herbs, Root Crops, and all ornamental plants such as Trees, Shrubs, and Turf.

People and Pets may enter treated areas after spray has dried.

Wash your hands after use.

Mixing and Application Instructions

For outdoor plants:

1. Mix one packet in one gallon of water [ALTERNATE LANGUAGE FOR LARGE PACKET: Mix one packet in three gallons of water] (one teaspoon per quart of water) and mix thoroughly.
2. Apply mixed product to plant foliage with a pump sprayer, watering can, or other suitable applicator and thoroughly soak the root zone of outdoor plants every 7-21 days.

For indoor plants:

1. To feed with every watering, mix ½ teaspoon per gallon of water. To feed every 14-21 days, mix one teaspoon per gallon.
2. Only apply EBC-281 to the leaves (foliage) of indoor plants that are not sensitive to liquid applications.
3. Apply as a root drench for indoor plants that are sensitive to liquid applications.

STORAGE AND DISPOSAL

Store dry and out of direct sunlight. Do not store in temperatures over 110° F for more than 7 days. If Empty: Do not reuse this container. Place in trash or offer for recycling if available. If Partly Filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS:

CAUTION: Causes eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

FIRST AID

If in eyes: - Flush with plenty of water. Get medical attention if irritation persists.

ENVIRONMENTAL HAZARDS: Do not apply directly to water. Do not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate.

GUARANTEED ANALYSIS

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.gapfco.org/metals.html> FXXXX

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

The contents of this package and/or the use of the contents are protected by U.S. Patent Nos. 5,849,868, 5,859,324, 5,776,889, 5,977,060, and 6,277,814. REFORMULATION OR REPACKAGING FOR SALE IS PROHIBITED. © 2004 EDEN BIOSCIENCE Corporation, and EDEN BIOSCIENCE[®] are registered trademarks of EDEN BIOSCIENCE Corporation. Always read and follow label instructions before buying or using this product.

[ALTERNATE LOCATION for Address/Phone/Website]

[OPTIONAL – Packed for:] EDEN BIOSCIENCE Corporation, 11816 North Creek Parkway North, Bothell, WA 98011-8201.

OPTIONAL LANGUAGE for labels and accompanying materials:
MAY BE USED UP TO THE DAY OF HARVEST

What does EBC-281 do?

- Stimulates a plant's defense and growth mechanisms
- Boosts overall growth, vigor, and production
- Aids in the management of disease
- Improves the plant's ability to grow and protect itself from stresses caused by adverse environmental conditions

[BARCODE]

06.1116 US-MASTER.EBC-281 0.1oz [Ag & H&G]