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RiteWay®

Plant Growth Regulator

Department of Agriculture
STATE OF HAWAII

LICENSED

PERIOD 2015-2017 LIC. NO.

8096.14

FOR USE ON APPLE, PEAR, PISTACHIO, AND ORNAMENTALS

ACTIVE INGREDIENT:

6-benzyladenine	1.9% w/w
OTHER INGREDIENTS:	98.1% w/w
TOTAL:	100.0% w/w

Department of Agriculture
STATE OF HAWAII

LICENSED

PERIOD 2012-2014 LIC. NO.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE INSIDE BOOKLET FOR FIRST AID AND PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300
For Medical Emergencies Only, Call (877) 325-1840

EPA REG. NO. 71368-60
EPA EST. NO. 65663-TX-1

Net Contents
1 Gal.
(3.78 L)

Manufactured for
Nufarm, Inc.
150 Harvester Drive
Burr Ridge, IL 60527

Nufarm

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves, such as barrier laminate; butyl, nitrile or neoprene rubber; polyvinyl chloride; or viton (for apple uses).

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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

IF IN EYES	• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.

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 disposing of equipment washwater or rinsate.

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 requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its label 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), and restricted-entry interval. The requirements in this box only 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 the restricted-entry interval (REI) of 12 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 plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate; butyl, nitrile or neoprene rubber; polyvinyl chloride; or viton (for apple uses).
- Chemical-resistant gloves (made of any waterproof material) (for pistachio uses).
- Shoes plus socks

GENERAL USE INFORMATION

IMPORTANT: Before application, read all directions thoroughly. Use this product only as directed.

This product contains 1.9% (w/w) 6-benzyladenine (6BA). 6BA is a potent plant growth regulator belonging to the group of growth regulators known as cytokinins.

APPLE, PEAR, AND PISTACHIO

APPLICATION INSTRUCTIONS

GENERAL

- Do not apply this product through any type of irrigation system.
- Apply in the morning or evening when conditions are best for slow drying (cooler temperatures and higher humidity), in order to ensure adequate absorption of the product. If applied in the morning, assure that the leaves are not too wet from dew.
- To minimize foaming of spray solution, reduce agitation and add the product to the tank after filling to 1/2 capacity with water.
- Product performs best at water pH between 5 and 7; do not exceed pH of 8.5.
- No surfactant is required.
- Apply in sufficient amount of water to ensure thorough coverage without excessive runoff. Use calibrated spray equipment to ensure uniform coverage of leaves and fruit. Adjust water volumes based on tree size and spacing. In many cases, spray volumes of approximately 100 gallons per acre have been shown to be adequate.
- For apples and pears, do not exceed a total rate of 308 fluid ounces (182 grams of 6BA) per acre per season for all applications.
- Consult your local Agricultural Extension Agent, State Experiment Station, or Nufarm Agricultural Specialist for specific information regarding the use of this product in your particular orchard(s).

APPLE AND PEAR			
USE	**APPLICATION RATE**	**SPRAY VOLUME**	**SPRAY TIMING**
For fruit thinning, sizing, and enhanced return bloom.	Apply 75 to 200 ppm spray concentration. (Refer to the dilution table for assistance.)	Use sufficient volume to ensure complete tree coverage.	Apply when the average diameter of king fruitlets is between 5 to 15 mm diameter. Do not apply more than twice in a season.

Additional Instructions:

- Direct 80% of the spray into the upper 2/3 of the tree canopy.
- Applications will be most effective when the maximum temperature is above 65°F on the day of application, and the following 2-3 days.
- Use higher rates in orchards that have a history of being difficult to thin, in varieties known to be difficult to thin, and in cool weather situations.
- **Do not exceed a total rate of 308 fluid ounces of this product (182 grams of 6BA) per acre per season for all applications.**
- **Do not apply within 86 days of harvest.**

NOTE: Generally, only one application is sufficient for fruit thinning. If a second application is desired to obtain additional thinning:

1. Allow 7-10 days to observe the effect of the first application.
2. Spray the second application before the average diameter of king fruitlets exceeds 20 mm diameter.

APPLE			
USE	**APPLICATION RATE**	**SPRAY VOLUME**	**SPRAY TIMING**
For enhancement of fruit size.	Apply 10 to 50 ppm spray concentration. (Refer to the dilution table for assistance.)	Use sufficient volume to ensure complete tree coverage.	Make 2 to 4 applications, starting at petal fall, and continuing at 3 to 10 day intervals.

Additional Instructions:

- Direct 80% of the spray into the upper 2/3 of the tree canopy.
- Applications will be most effective when the maximum temperature is above 65°F on the day of application, and the following 2-3 days.
- **Do not apply within 86 days of harvest.**

NOTE: This use may cause fruit thinning in some easy to thin varieties, and/or under conditions favorable for thinning.

PISTACHIO			
USE	**APPLICATION RATE**	**SPRAY VOLUME**	**SPRAY TIMING**
To increase yield, and reduce alternate bearing.	Apply 25 to 50 ppm spray concentration. (Refer to the dilution table for assistance.)	Use sufficient volume to ensure complete tree coverage.	Always make two applications: 1st: Early-to-mid June. 2nd: Early-to-mid July.

Additional Instructions:

- Apply in a tank mix with low biuret urea foliar nutritional spray at the rate of 6.25 to 12.5 lbs. nitrogen per acre at both spray timings.
- **Do not exceed 50 fluid ounces of this product (30 grams of 6BA) per acre per application.**
- **Do not apply within 60 days of harvest.**

DILUTION TABLE
(for use on apple, pear, and pistachio)

Fluid ounces of this product per 100 gallons of spray mixture required to obtain given 6BA concentrations (ppm)

Concentration	10 ppm	25 ppm	50 ppm	75 ppm	100 ppm	125 ppm	150 ppm	175 ppm	200 ppm
Fl. oz product / 100 gallons of spray mixture	6	16	32	48	64	80	96	112	128

Note: This product contains 75 grams active ingredient per 128 fluid ounces (one gallon).

COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS

Information on tank mix compatibility of this product is limited at this time.

ORNAMENTALS

FOR USE IN COMMERCIAL GREENHOUSES, GLASSHOUSES (ON ORNAMENTAL PLANTS GROWN IN CONTAINERS) AND ON ACTIVELY GROWING STOCK PLANTS.

This product may be used to increase lateral or basal branching and promote flowering in certain ornamental plants. This product also reduces the overall height of the plants resulting in more compact and marketable plants.

Plant response is strongly influenced by cultural and environmental variables. Growing media, water/fertilizer management, temperature, light, greenhouse composition, plant size, container size, and plant cultivar or variety may impact treatment response. Although multiple cultivars have been tested for sensitivity to this product and have demonstrated high levels of tolerance, it is impossible to ensure an acceptable response in all cultivars. Therefore, before commercial use, first time users of this product should conduct trials on a small number of plants to verify plant response.

APPLICATION INSTRUCTIONS

- Do not apply this product through any type of irrigation system.
- Apply as a foliar spray using standard foliar application equipment.
- Apply in a sufficient amount of water to ensure thorough coverage. Use calibrated spray equipment to ensure uniform coverage.
- Apply 1 to 2 quarts of finished spray solution per 100 ft^2.
- Product performs best at water pH between 5 and 7; do not exceed pH of 8.5.
- A high quality wetting agent or spray adjuvant approved for use on the crop to be treated may be added to the spray solution. Consult the wetting agent or adjuvant label or manufacturer for rates, crop tolerance, and safety information.

CHRISTMAS CACTUS (*Schlumbergera* spp.)		
USE	**APPLICATION RATE**	**SPRAY TIMING**
To increase branching under vegetative conditions	100 ppm (refer to dilution table)	One foliar application after planting when new vegetative growth begins.
To increase the number of flower buds under reproductive conditions	100 to 200 ppm (refer to dilution table)	**For floral initiation under short day conditions (i.e., lighting/black clothing):** Wait 5 to 10 days after the start of short days to level by removing immature phylloclades. Make a single application immediately following or 1 day after leveling. **For floral initiation under natural environmental conditions:** Make a single application after flower buds first become visible (i.e., pinpoint bud stage). **Note:** Avoid early application as it will result in phylloclade promotion and delayed flowering.

PLANTAIN LILY (*Hosta* spp.)		
USE	**APPLICATION RATE**	**SPRAY TIMING**
To promote lateral growth of finished plants by inducing the outgrowth of axillary and rhizomic buds	1000 to 3000 ppm (refer to dilution table)	Treatment is most effective when plants are fully established before application, i.e., at least 3 to 4 weeks after potting, when there is evidence of surface root development but before flower initiation.
To increase production of offsets during propagation	1000 to 3000 ppm (refer to dilution table)	Apply to fully established, actively growing stock plants. Repeat application at 30-day intervals during the growing season. Offsets may be harvested at any time. **Note:** Treatment effects at a given rate may vary depending on the *Hosta* cultivar. Multiple applications at 30-day intervals using lower rates may be more effective than a single application at a higher rate. Test a small number of plants under actual use conditions to establish the proper use rate and timing.

PURPLE CONEFLOWER (*Echinacea* spp.)		
USE	**APPLICATION RATE**	**SPRAY TIMING**
To increase the number of branches	300 to 900 ppm (refer to dilution table)	After plant establishment and resumption of growth (i.e., approximately 2 weeks after potting). Apply in a uniform volume of 2 quarts per 100 ft^2. The optimum application rate and timing may vary depending on the cultivar. Test a small number of plants under actual use conditions to establish the proper use rate and timing.

APPLICATION INSTRUCTIONS FOR USE ON CONTAINERIZED ANNUAL AND PERENNIAL FLOWERING AND FOLIAGE CROPS AND TROPICAL PLANTS

- Apply as a foliar spray when plants are fully established during active growth (i.e., at least 3 to 4 weeks after potting) to increase lateral growth.
- Apply at rates ranging from 50 to 500 ppm.
- Apply in a uniform spray volume of 2 quarts per 100 ft^2.
- First time users should test a small number of plants from each cultivar starting with a rate of 50 ppm on annuals and 100 ppm on perennials and tropical plants. Observe plant response and adjust the application rate accordingly.
- Multiple applications at 7 to 10 day spray intervals may be necessary to achieve optimum results.

DILUTION TABLE

(for use on ornamental plants)

Amount of Product Required to Obtain the Given 6BA Concentrations (ppm)

Desired 6BA Concentration (ppm)	**50**	**100**	**200**	**300**	**400**	**500**	**900**	**1000**	**2000**	**3000**
fl. oz. of product / gal. of spray mixture	**0.3**	**0.6**	**1.3**	**1.9**	**2.6**	**3.2**	**5.8**	**6.5**	**12.8**	**19.4**
ml of product / gal. of spray mixture	**9**	**19**	**38**	**57**	**76**	**95**	**172**	**191**	**382**	**573**
ml of product / liter of spray mixture	**2.5**	**5**	**10**	**15**	**20**	**25**	**45**	**50**	**101**	**151**

Note: This product contains 75 grams active ingredient (6BA) per 128 fluid ounces (one gallon).

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store product in a cool and dry place.

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

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 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 or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

WARRANTY DISCLAIMER

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