

RHIZOPON® AA WATER SOLUBLE TABLETS

Plant Growth Regulator - Rooting Hormone

Propagate New Plants by Rooting Cuttings.
Improve Transplanting - Promote Root Regeneration.
Improve Plant Growth & Flower Yields.
Build Root Mass

Use on house, tropical, herbaceous, perennial & foliage
plants, hardy ornamental plants, trees & shrubs,
evergreen and deciduous plants.

Use in Greenhouses and Nurseries Only

Active Ingredients:
Indole-3-butyric Acid (50 mg/tablet).....20.0%
Inert Ingredients.....80.0%
Total...100.0%

Contents:
20 TABLETS, 250 mg each, Net wt. 5 grams
Exclusive USA Importer: HORTUS USA Corp., New York NY 10011
Made in Holland EPA REG # 63310-8 EPA EST # 63310-HL-001

Keep Out Of Reach Of Children
CAUTION

See Additional Precautionary Statements on Back Panel

Use Rhizopon AA to propagate new plants
from cuttings. The new plants will have the
same characteristics as the parent plant.
Rhizopon AA treated cuttings will expect to
produce uniform roots all around the basal end
of the cuttings; the results are beautiful
symmetric plants.

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 other Federal, consult the agency responsible.

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.

RATE DETERMINATION

A wide dosage range is indicated for most uses of this product. The ideal rate will vary according to specific plant variety and local growing conditions. To assure compatibility of this product under the specific growing conditions and to determine the dosage rate best suited for your growing conditions, it is recommended that you test a few plants at varying rates within the specified dosage range prior to large scale operations. If combined with other plant regulators, test varying rates of each product. If foliar application causes phytotoxicity, try soil applications or decreased rates.

NOTES

'AI' is the Active Ingredient specified as 'ppm AI'
' = parts per million AI
= milligrams (mg) AI per liter (L).
1 Liter (L) = 1000 milliliter (ml) = 33.8 fluid ounces.
For additional information on how to use 'Active Ingredient' see
'To Make a Solution of Any Working Volume'.

PROMOTE ROOTING OF PLANT CUTTINGS

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

Apply to plant cuttings by convenient methods:

Total Immerse

Completely immerse several cuttings at a time for a few seconds then plant.

Quick Dip

Immerse basal end of cuttings for a few seconds then plant.

Spray Drip Down™

Plant many cuttings in trays then spray cuttings until drips down.

Immersion Method

Immerse basal end of cuttings for a few hours then plant.

1. Take plant cuttings, usually stem cuttings. For woody cuttings usually wound by making a 3/4" notch at basal end.
2. For Quick Dip and Immerse treat basal end of plant cuttings with solution then plant. For Total Immerse dip whole cuttings in solution then plant. For spray Drip Down plant cuttings then treat by spraying leaves and stems until drip down.
3. 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. Mix a portion of the solution for the same day use. Dispose of un-used portion as described in the 'storage and disposal' statements on this label.

IMMERSION METHOD

Immerse Basal End Then Plant
Immerse basal end of cuttings approximately 1" in solution for 4 to 12 hours. Plant immediately.
Herbaceous and Woody Cuttings, including hard to root cuttings and rootstocks: 1-3 Tablets/liter water (50-150 ppm AI)

QUICK DIP METHOD

Immerse Basal End Then Plant
Immerse basal end of cuttings approximately 1" in solution a few seconds. Plant immediately.
To mix more than 10 Tablets/liter see 'To Make a Solution'.
Herbaceous Cuttings, Tropical Plants, House Plants, Roses, etc.: 3-10 Tablets/liter water (150-500 ppm AI)
Chrysanthemum: 4-10 Tablets/liter water (200-500 ppm AI)
Softwood Cuttings: 20 Tablets/liter (1000 ppm AI)
Hardwood Cuttings: 40 Tablets/liter (2000 ppm AI)
Difficult to Root Cuttings: 100-400 Tablets/liter (5000-20000 ppm AI)

TOTAL IMMERSION METHOD

Total Immerse Cuttings Then Plant
Immerse whole cuttings in solution a few seconds. A basket is useful. Plant immediately.
Herbaceous Cuttings, Chrysanthemum, Plumbago, Ivy, Clematis, Delphinium, Lavender, Ficus, Potted Rose Bushes, etc.: 1-5 Tablets/liter water (50-250 ppm AI)
Softwood Cuttings, Buddleia (Butterfly Bush), Hydrangea, Pieris, Hedera (Ivy), etc.: 1-6 Tablets/liter water (50-300 ppm AI)
Hardwood Cuttings, Conifers, etc.: 4-10 Tablets/liter water (200-500 ppm AI)

SPRAY DRIP DOWN METHOD™

Plant Cuttings Then Spray
Plant cuttings. Spray solution on leaves and stems until drip down into media.
Herbaceous Cuttings, Chrysanthemum, Begonia, Dieffenbachia, Heath, Hibiscus, etc.: 1-5 Tablets/liter water (50-250 ppm AI)

For Cuttings Which Take a Long Time to Root, or When Roots of Cuttings are Killed by Root Fungus,
Periodically spray solution on leaves and stems until drip down into media: 1-5 Tablets/liter water (50-250 ppm AI)

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TRANSPLANTING

Use solutions to promote root regeneration when transplanting.

Immersion-Absorption Method (treat bare root plants).

Soil Drench Method (treat plants in plug or ball).

Soil Drench Method (treat transplants already planted).

IMMERSION-ABSORPTION METHOD (Bare Root Plants)

Dissolve Tablets in water only. Immerse bare roots in solution.

Plant immediately or use before storage.

Immerse roots in solution at 2-3 Tablets/liter water for 10 minutes,

or 3-5 Tablets/liter water for 5 minutes. After treating roots optionally spray the leaves lightly using ½ to 1 Tablet/liter water.

SPRAY OR DIP METHODS (Plants in Plug or Ball)

Spray plug, ball or bare roots after taking the plants out of propagation tray, or dip whole plug or ball in solution until fully saturated.

Herbaceous Plants, House and Foliage Plants: 1-3 Tablets/liter water.

Woody, Ornamental and Forestry Plants: 3-5 Tablets/liter water. After treating roots optionally spray the leaves lightly using ½ to 1 Tablet/liter water.

SOIL DRENCH METHOD (After Planting)

After planting drench the soil.

House and Foliage Plants: 1-2 Tablets/liter water.

Herbaceous Plants: 2-4 Tablets/liter water.

Woody, Ornamental and Forestry Plants: 4-8 Tablets/liter water. Use higher rate when soil composition draws water away from the roots. After treating roots optionally spray the leaves lightly using ½ to 1 Tablet/liter water.

IMPROVE PLANT GROWTH

Use on house, tropical, herbaceous, bedding, flowering plants. Improve growth and flowering by increasing root mass. Apply at 3-5 week intervals during the active growing season or whenever fertilizing. Apply after harvesting to improve flower regeneration. Drench the soil and/or spray foliage. Use 1/10 to 1 Tablet/liter water.

Hardy Ornamental Plants, Deciduous and Evergreen Shrubs and Trees,

Apply at 4-6 week intervals early in the active growing season or whenever fertilizing. Apply 1 or 2 times late in the growing season to reduce winter kill and improve following year growth. Drench the soil and/or spray foliage. Use 1/4 to 2 Tablets/liter water.

TO MAKE A SOLUTION OF ANY VOLUME

For many applications dissolve tablets using water only. Mix a portion of the solution for the same day use. Dispose of un-used portion as described in the 'storage and disposal' statements on this label. Active ingredients entirely dissolve, in water up to 10 Tablets/liter (500 ppm AI), in water and alcohol

to 40 Tablets/liter (20000 ppm AI). A small amount of visible inert ingredients do not affect results. Container: Use plastic not metal. Water: Use clean water preferably distilled or deionized. Alcohol: Use methyl or isopropyl or ethyl. Temperature: Dissolve Tablets at 68F-85F. 'Blender' is an electric hand blender (liquefier). Stir at least 1 minute or until dissolved. When using a blender mix an adequate amount of liquid to assure adequate blender action.

THREE EASY STEPS

- (1) Decide the concentration in Tablets/liter or ppm AI.
- (2) Decide the Working Volume V.
- (3) Measure and mix.

MIXING INSTRUCTIONS

0-5 Tablets/liter (0-250 ppm AI):
-Dissolve in water. Mix manually or use blender.
5-10 Tablets/liter (250-500 ppm AI):
-Dissolve in water. Mix using blender
11-200 Tablets/liter (550-10000 ppm AI):
-Make an initial 10000 ppm AI concentration using 50% water + 50% alcohol. Dilute with water to make working concentration. Mix using blender. See STEPS TO CALCULATE below.
201-400 Tablets/liter (10050-20000 ppm AI):
-Use 25% water + 75% alcohol. Mix using blender.

EXAMPLES TO MAKE 1 LITER (1000 ml) SOLUTION

For the following mix manually or use an electric hand blender:
250 ppm AI: mix 5 Tablets in 1000 ml water.
For the following mix using an electric hand blender:
500 ppm AI: mix 10 Tablets in 1000 ml water.
1000 ppm AI: mix 20 Tablets in 500ml water + 50ml alcohol, add water to 1000 ml.
2000 ppm AI: mix 40 Tablets in 100ml water + 100ml alcohol, add water to 1000 ml.
5000 ppm AI: mix 100 Tab. in 250ml water + 250ml alcohol, add water to 1000 ml.
8000 ppm AI: mix 160 Tab. in 400ml water + 400ml alcohol, add water to 1000 ml.
10000 ppm AI: mix 200 Tablets in 500 ml water + 500 ml alcohol.
20000 ppm AI: mix 400 Tablets in 250 ml water + 750 ml alcohol.

TO CALCULATE THE NUMBER OF TABLETS T REQUIRED FOR A GIVEN VOLUME V

Given Working Volume V and ppm AI:
 $V \text{ (Liters)} = \text{mL}/1000$
 $P = \text{ppm AI} / 50$
The Number of Tablets $T = V \text{ (Liters)} \times P$

Given Working Volume V and Tablets/liter:
 $V \text{ (Liters)} = \text{mL}/1000$
 $N = \text{Tablets/liter}$
The Number of Tablets $T = V \text{ (Liters)} \times N$

Up to 5 Tablets/liter Water (0-250 ppm AI)
(1) Calculate the Number of Tablets T.
(2) Measure the Working Volume V using water only.
(3) Dissolve Tablets in water; mix manually or using hand blender.

6-10 Tablets/liter Water (300-500 ppm AI)
(1) Calculate the Number of Tablets T.
(2) Measure the Working Volume V using water only.
(3) Dissolve Tablets in water; mix using hand blender.

11-200 Tablets/liter Solution (550-10000 ppm AI)
(1) Calculate the Number of Tablets T.
(2) Calculate the initial mixing volume of water and alcohol (1:1) to dissolve Tablets.
Water (ml.) = Number of Tablets T x 2.5
Alcohol (ml.) = Number of Tablets T x 2.5
(3) Measure water and alcohol. Dissolve Tablets in water and alcohol; mix using hand blender.
(4) Dilute with water to the Working Volume V (Liters).

200-400 Tablets/liter Solution (10000-20000 ppm AI)
(1) Calculate the Number of Tablets T.
(2) Measure Working Volume V using 25% water and 75% alcohol.
(3) Dissolve Tablets in water and alcohol; mix using hand blender.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal. Store in a cool dry place. Keep in original container. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Container disposal-triple rinse (or equivalent). Then offer for recycling, or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned stay out of smoke.

PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals.

CAUTION

Causes moderate eye injury. Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. 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.

USER SAFETY RECOMMENDATIONS

Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing 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.

STATEMENT OF PRACTICAL TREATMENT

If on skin wash with plenty of soap and water. If in eyes wash with plenty of water. Get medical attention if irritation persists. If inhaled remove victim to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. Get medical attention.

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 by cleaning of equipment or disposal of equipment wash waters.

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. In no case shall Rhizopon or Hortus be liable for consequential, special or indirect damages resulting from the use or handling of this product. 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.

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