

TRUSTED SINCE 1926

**BONIDE**<sup>®</sup>

**GARDEN**<sup>®</sup>  
**Rich**



**Root & Grow**<sup>®</sup>

**Root Stimulator & Plant Starter**

Contains IBA root stimulator

4-10-3

**ACTIVE INGREDIENT:**

Indole-3-butyric acid . . . . . 0.0004%

**OTHER INGREDIENTS:** . . . . . 99.9996%

**TOTAL:** . . . . . 100.0000%

EPA Reg. No 4-431 EPA Est. No 4-NY-1

**Keep Out Of Reach Of Children**

**CAUTION** (See back booklet for First Aid and  
Additional Precautionary Statements)

**Ideal for transplants, houseplants,  
vegetables\*, fruit trees\*, berries\*,  
flowers, trees, shrubs & ornamentals**

*\*Not for this use in California*

**Helps reduce transplant shock &  
promotes more vigorous plant growth**



# Root & Grow<sup>®</sup>

## Root Stimulator & Plant Starter 4-10-3

### GUARANTEED ANALYSIS

4-10-3

Total Nitrogen (N) .....4.00%

3.00% Ammoniacal Nitrogen

1.00% Urea Nitrogen

Available Phosphate ( $P_2O_5$ ) .....10.00%

Soluble Potash ( $K_2O$ ) .....3.00%

Derived from urea, ammonium phosphate, muriate of potash.

In Mississippi (MS): Low Analysis Fertilizer

Information concerning the raw materials composing this product can be obtained by writing to the Guarantor listed below, and referring to the batch number found on this container.

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

Store and transport in an upright position.  
EPA Est. No. 4-NY-1 EPA Reg. No. 4-431  
Buyers Guarantee Limited to Label Claims.  
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BN

Manufactured/Guaranteed by:  
Bonide Products, LLC  
6301 Sutliff Road  
Oriskany, NY 13424

## DIRECTIONS FOR USE

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

Cannot sell between June 1st & September 30th in Pinellas County or the City of Tampa, Florida.

FOR HOMEOWNER USE ONLY

**WHAT IS THIS PRODUCT FOR?** Use this product anytime you are seeding or transplanting to stimulate early root formation and stronger root development, to help reduce transplant shock, and to promote more vigorous plant growth. This product can also be used as listed throughout the growing season to provide plant nutrients that help optimize plant growth and development.

**HERE ARE THE RESULTS YOU MAY EXPECT:** This product helps plants become established quickly and helps insure vigorous growth.

**HOW TO USE: (SHAKE WELL BEFORE USE)**

This product is concentrated and must be **diluted** with water according to the following rates before use on flowers, shrubs, trees or houseplants.

3½ Tbs. per gallon of water    1 pint in 9½ gallons of water  
1 quart in 19 gallons of water

## ORNAMENTAL PLANTS

### **Flowers, Shrubs, Groundcovers, Trees:**

*For Transplants:* Use 1 to 8 pints of *diluted* solution per plant, depending on size. For example, use 1 pint of the mixture on mums, geraniums and other annual flowers. For rose bushes, azaleas, gardenias, camellias, and other shrubs, use 3 pints per plant. For plants larger than 4 ft. (trees and large shrubs) use 1 gallon or more of the mixture per plant. Pour **diluted** solution over the soil as the roots are being covered, making sure that the roots are wet with the solution. Wet soil around plant with water after planting.

*For Seeding:*(*Not for this use in California*): After seeds are covered with soil, water thoroughly using 1 gallon of *diluted* solution per 250 sq. ft. of plant bed. Water thoroughly.

*For Established Plants:* Use 1 gallon of *diluted* solution per 250 sq. ft. Apply at first signs of new growth in spring and repeat every 4-6 weeks throughout the growing season. Water thoroughly.

**Houseplants:** Use  $\frac{1}{2}$  cup *diluted* solution per quart of soil (a 6 in. pot holds approximately 1 quart). Reapply every 6-8 weeks.

**Recommended Crops:** The following is a broad listing of crops on which this product is recommended for use. A brief listing of crops within each grouping is given after the group name as an example of those crops represented. The examples given are not meant to be an exhaustive list of those crops within any grouping, and should not be construed as such.

*Row or Band and Injection Applications:* Use at the rate of 3½ to 4½ fluid ounces per 1,000 sq. ft.

*Broadcast Applications:* Use at the rate of 7½ to 8½ fluid ounces per 1,000 sq. ft.

## **VEGETABLES (Not for this use in California)**

**BRASSICA (COLE) LEAFY VARIETIES:** (Broccoli, Brussels Sprouts, Cabbage, Chinese Cabbage, Cauliflower, Chinese Mustard, Collards, Kale, Kohlrabi, Mustard Greens, Rape Greens)

**CUCURBITS:** (Cantaloupe, Casaba Melons, Cucumber, Gherkins, Gourds, Honeydew Melons, Mango Melons, Muskmelons, Pumpkins, Summer Squash, Watermelons, Winter Squash)

**LEAFY VEGETABLES (EXCEPT BRASSICA):** (Celery, Cress, Endive, Fennel, Lettuce, Orach, Spinach, Swiss Chard)

## VEGETABLES (Not for this use in California) cont.

**ROOT, TUBER AND BULB VEGETABLES:** (Artichokes, Burdock, Carrots, Cassava, Chicory, Garlic, Ginger, Ginseng, Horseradish, Leek, Onion, Parsley, Parsnip, Potato, Radish, Rutabaga, Salsify, Shallot, Sweet Potato, Turnips, Yams)

**FRUITING VEGETABLES:** (Bell Peppers, Chile Peppers, Cooking Peppers, Eggplant, Ground Cherry, Pepinos, Pimentos, Sweet Peppers, Tomatillo, Tomatoes)

**LEGUMES:** (Beans including Lupinus spp., Phaseolus spp., and Vigna spp., Broad Beans, Chick Peas, Guar, Jackbean, Lablab Beans, Lentils, Peas, Soybeans)

## TREE CROPS (Not for this use in California)

**CITRUS:** (Calamondin, Grapefruits, Kumquats, Lemons, Limes, Oranges, Tangelos, Tangerines)

**NUTS:** (Almonds, Beech Nut, Brazil Nut, Butternut, Cashew, Chestnut, Chinquapin, Filberts, Hickory Nut, Macadamia Nut, Pecan, Walnut)

**POME FRUIT:** (Apple, Crabapple, Mayhaw, Pear, Quince)

**STONE FRUIT:** (Apricots, Cherries (Sweet and Sour), Nectarines, Peaches, Plums, Prunes)

## SMALL FRUITS AND BERRIES (Not for this use in California)

(Blackberries, Blueberries, Boysenberries, Cranberries, Currants, Dewberries, Elderberries, Gooseberries, Grapes, Huckleberries, Olallieberries, Raspberries, Strawberries, Youngberries)

### STORAGE AND DISPOSAL

**Pesticide Storage:** Store and transport in an upright position. Store product in original container in a locked storage area.

**Pesticide Disposal:** *If partly filled* - Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**Container Disposal:** *If empty* - Nonrefillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available.

## FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment information.

### If on Skin or Clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

### If in Eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 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.



**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

**ENVIRONMENTAL HAZARDS:** To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

For information on pesticide products (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

To the extent consistent with applicable law, buyer assumes all risks of use, storage or handling of this product not in strict accordance with directions given herewith.