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U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs

___ Re-registration

Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511C)
1200 Pennsylvania Avenue NW
Washington, DC 20460

EPA Reg. Number: 83028-9

Date of Issuance:

9-17-07

Term of

Issuance:

Unconditional

Name of Pesticide Product:

RootGro

NOTICE OF PESTICIDE:

___X__ Registration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

NCA Biotech, Inc.

3406 Pomona Blvd.

Pomona, CA 91768

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/reregistered 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 product is unconditionally registered in accordance with FIFRA Sec. 3(c)(5) provided you:

- 1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of similar products to submit such data.
- 2. Make the following label change before you release the product for shipment: Revise the EPA Registration Number to read, "EPA Reg. No. 83028-9.
- 3. Submit three (3) copies of your final printed labeling before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA se.6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

	Signature of Approving Official: W. Mchael M. L	Int	Date: 9-17-07	
		CONCURRENCES		
SYMB	W Michael McDerut. Associate Direct	tor 7511P	77	
SURN	W. Michael McDavit; Associate Direc Blopesticides and Pollution Prevention	Division COLE	Hollie	
DATE		8/31/07	19+134	

NCA BioTech, Inc.

RootGro

Reduces transplant shock and promotes new root growth

ACTIVE INGREDIENT:		
Indole-3-Butyric Acid		0.8% w/w
,	TOTAL	100 0% w/w

KEEP OUT OF REACH OF CHILDREN CAUTION

•	
	FIRST AID
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.
	HOTLINE_
going for treatment. For	ner or label with you when calling a poison control center or doctor, or general product information, call NCA Biotech, Inc. at (909)-348-5133 m 4 p.m. Pacific Time.

PRECAUTIONARY STATEMENTS

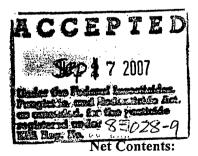
ENVIRONMENTAL HAZARDS

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 washwaters.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: Long sleeved shirt and long pants and shoes plus socks. Follow the 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.

EPA Reg. No. 83028-EPA Est. No.



Manufactured for: NCA Biotech, Inc. 3406 Pomona Blvd. Pomona, California 91768 USA

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- 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.

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 applications. For any requirements 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), and restricted-entry interval. The requirements in this box only apply to uses 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 0 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:

- Long sleeved shirt and long pants
- Shoes plus socks

INTRODUCTION

Cuttings from different varieties and species of plants, shrubs, and trees vary greatly in their capacity to form roots. Some root with ease and others with difficulty, or not at all. It is believed that natural root-forming hormones are present in different plants in varying quantities, and that the ease or difficulty with which a cutting can root is governed by the natural root-inducing hormones present.

The dilution of different strengths of RootGro, which parallel the range of hormones in nature, is a development of striking importance. Different strengths are recommended for different plants, as can be seen in the plant name chart on the following pages.

TYPE OF CUTTING TO USE:

Cuttings of current season's growth, 4 to 6 inches in length, generally are most satisfactory. Entire shoots of this length, cut at or near the base, should be taken, unless it is known that other plant parts root more readily. Some plants are readily propagated from leaf-bud cuttings. Propagators are familiar with the fact that tip cuttings of some varieties, and parts below the tip in other varieties, root best. This applies also, but to a lesser extent, to cuttings treated with RootGro. The basal cut may be made at a slant or straight with small pruning shears, or with a

knife. Large leafed types of cuttings will need to be trimmed, but it is preferable to use the largest leaf area which can be kept in good condition, and at the same time meets the requirements for economy of space.

TIME TO TAKE CUTTINGS:

Cuttings of most deciduous shrubs usually root best when taken during June, July and August in the New York area. A few varieties can be taken the latter part of April, and others during May, depending upon when the new growth starts. Cuttings taken between August and December will vary considerably in their capacity to root, but a number of varieties will root well when taken at that time. Cuttings of certain plants are available over a much wider range of time in the South than in the North, and corresponding season advance must be considered. Cuttings of plants grown indoors are taken according to the condition of the material, without regard to season.

CARE OF CUTTING MATERIAL:

Cutting material should be kept fresh. Cuttings of many varieties keep fresh when the basal ends of stems are immersed in water or wrapped in wet cloth or burlap until ready to be placed in the **RootGro** solution. Shoots and branches should not be kept in closed containers for long periods of time. Depending on humidity conditions, frequent spraying of the cuttings or covering with moist cheesecloth, will prevent excessive wilting.

PLANTING CUTTINGS AND HOW TO CARE FOR THEM:

After treatment with **RootGro**, the cuttings should be planted in a mixture of ¼ peat moss and ¾ sand (by volume), or in sand only, until rooted. Propagators who have a satisfactory rooting medium should continue to use it. Any method of planting cuttings, which keeps them in good condition, may be used. When cuttings are planted in a vertical position, they require more critical care than when slanted in such a way that the exposed leaves lie flat or close to the surface of the rooting medium. Sufficient shade must be provided at all times, particularly on hot, bright days, to keep the cuttings fresh, but not dense enough to cause rotting of leaves, or mold growth. Immediately after planting, the cuttings should be watered thoroughly and regularly according to climatic conditions. The rooting medium below the surface must not be allowed to become dry.

A temperature in the bed of 70° to 75°F has proved satisfactory for many species. Temperatures below 60°F are not generally satisfactory with tested cuttings.

APPLICATION INSTRUCTIONS

Dip the basal end cuttings, individually or in bunches into the diluted RootGro solution for 3-5 seconds.

Following dipping, place cuttings into planting medium. Depending on the species, rooting will take place in several weeks or months under a moist greenhouse environment. Transplanting may be performed once the cuttings have rooted.

TO REDUCE TRANSPLANT SHOCK AND PROMOTE NEW ROOT GROWTH - for Shrubs, Flowers, Groundcovers & Houseplants

Rose, Arborvitae, Gardenias, flowering trees and other ornamentals, bare root transplant or in containers, use 2 tablespoons of product per 10 gallons of water. Apply to root area in transplanting hole then cover roots with soil. After planting, repeat applications biweekly as a drench to thoroughly wet the root area using one teaspoon per 10 gallons of water.

Annual and perennial flowers (bedding plants): Use one tablespoon per 10 gallons of water and apply to thoroughly saturate root zone at time of planting. Repeat at weekly intervals until plants are well established.

Groundcovers such as Ivy, Iceplants, Geranium, Cotoneaster, Barberry, & Ajuga. Use 1 tablespoon per 10 gallons of water and apply thoroughly, saturating root zone area at time of planting. Repeat at weekly intervals until plants are well established.

Houseplants (repotting and planting): Use 1 tablespoon per 10 gallons of water and water thoroughly at weekly intervals to saturate root zone until plants are well established.

Established plants: To continue new root growth, use 1 tablespoon per 10 gallons of water and water plants once a month.

TO REDUCE TRANSPLANT SHOCK AND PROMOTE NEW ROOT GROWTH -For various field crops; such as, brassica vegetables, leafy vegetables, cucurbit vegetables, fruiting vegetables, root & tuber vegetables, legume vegetables, citrus fruits, pome/stone fruits, vines, grapes and strawberries, alfalfa, cereal grains, turf grass, sod grass, and cotton.

Mix **RootGro** with the transplant water at the rate of 6-8 fl. oz. product per 100 gallons and apply at planting time. Make foliar application or side-drench at the same use rate two weeks after transplanting. 2-3 applications may be needed early in the growing season.

CUTTINGS

Dil	ution	Rate

Cutting type	Dilution rate	Amount of product in amount of water
1. Softwoods or succulents	1:20	Mix 1 fl. oz. product in 20 fl. oz. water
2. Semi-hardwoods	1:10	Mix 1 fl. oz. product in 10 fl. oz. water
3. Hard woods	1:5	Mix 1 fl. oz. product in 5 fl. oz. water

Mix only enough RootGro solution to be used immediately. Photodegradation may occur; therefore, RootGro solution must be used within 10 hours of preparation.

Use RootGro on all nursery stock cuttings including Woody ornamentals, Deciduous hardwoods, Evergreens, Ground Covers, and Perennials

The following plants have been successfully rooted with IBA supplement. Cuttings which respond to dilution 1 (1:20) may be injured by use of dilution 3 (1:5), or in some cases, dilution 2 (1:10).

For plant types or species not found in the following list it is suggested Dilution 1 or 2 be used.

The following plants have been successfully rooted with RootGro

Common Name	Scientific Name	RootGro Dilution
Acanthopanax	Acanthopanax sp.	3 (1:5 dilution)
African Violet	Saintpaulia sp.	1 (1:20 dilution)
Ageratum	Ageratum sp.	1
Andromeda	Andromeda japonica	1
Apple	Malus sp.	2 or 3
Arbor-Vitae (Thuja) vars.	Thuja ellwangeriana aurea nana	2 (1:10 dilution)
	Thuja occidentalis vars.	2 or 3
Arbutus (Trailing)	Epigaea repens	3
Ardisia	Ardisia japonica	2
Azalea vars.	Azalea spp.	2
Barberry	Berberis sp.	1
Bayberry	Myrica sp.	1
Beauty Berry	Callicarpa sp.	1

Beauty Bush Beech Begonia Birch Bittersweet Blackberry Bluebeard Blueberry Bougainvillea Bowstring-Kemp (Snake plant) Boxwood Broom Bush-Arbutus Butterfly bush	Kikwitzia amabilis(tips)(June-July) Fagus sp. (August) Begonia sp. Betula sp. Celastrus sp. Rubus sp. Caryopteris sp. Vaccinium carymbosum vars. Bougainvilla sp. Sanseveria Buxus sp. Cystisus sp. Albelia grandiflora rosea (tips best) Buddleia sp.	3 2 1 3 3 1 1 or 2 1 1 3 1 or 2 1
Camellia Candytuft Carnation Catalpa Chaste Tree Chestnut Chokeberry Chrysanthemum Cinquefoil Clematis Clerodendron Clockvine Coleus	Camellia sp. Iberis sp. Dianthyus vars. Catalpa sp. Vitex sp. Castanea sp. Aronia sp. Chrysanthemum Potentilla sp. Clematis sp. Clerodendron sp. Thunbergia sp. Coleus blumei	3 1 1 3 3 2 2 or 3 1 2 2 1 1
Cotoneaster Crabapple Crape Myrtle Crassula Creeper Croton Cryptomeria Currant	Cotoneaster horizontalis Malus sp. Lagerstroemia indica Crassula rubicunda Parthenocissus sp. Codiaeum sp. Cryptomeria sp. Ribes tenuiflorum	3 2 or 3 1 1 1 1 3 1
Dahlia Daphne Deutzia Dewberry Dianthus (see Carnation) Dogwood Dovetree Douglas fir Dracena Dutchmanspipe	Dahlia vars. Daphne sp. Deutzia magnifica Rubus sp. Cornus florida (July) Davidia sp. Pseudotsuga sp. Dracena sanderiana Aristolochia sp. Sambucus sp.	1 1 or 2 1 1 3 1 3 1 1 1 or 2
Eider Elm Escallonia Euonymus	Sambucus sp. Ulmus sp. (June-July) Escallonia sp. Euonymus sp.	1 3 1

False arborvitae Fir Firethorn Flowering Cherry vars. Flowering quince Fontanesia Forsythia Franklinia Fringe Tree Fuchsia	Thujopsis sp. Abies sp. Pyracantha sp. Prunus sp. and vars. Chaenomeles sp. Fontanesia sp. Forsythia sp. Gordonia alatamaha Chionanthus sp. Fuchsia spp.	2 3 1 or 2 1 3 1 1 2 2
Gardenia Geranium Germander Golden chain Grape	Gardenia florida Geranium spp. Teucrium sp. Laburnum spp. Vitis sp. and vars.	1, 2 or 3 1 2 or 3 2 3
Hawthorne Hazelnut Heath Heather Hemlock vars Hibiscus Hibiscus (Rose of Sharon)	Crateagus sp. Corylus sp. (June) Erica carnea vars. Calluna vulgaris vars. Tsuga sp. and vars. (Sept-June) Hibiscus (tropical) Hibiscus syriscus vars. (leafy and dormant)	3 1 or 2 3 3 2 or 3 2
Holly (American) Holly (Chinese) Holly (English) Holly (Japanese) Honeysuckle Jasmine	Ilex opaca, Ilex pernyi Ilex cornuta Ilex aquifolium Ilex crenata vars. Lonicera sp. Jasminum nudiflorm	3 3 3 2 1
Jetbead Juniper vars. Kerria	Rhodotypus sp. Junuperus spp. Kerria sp.	1 ¹ 3
Knotwood Laburnocytisus Lantana Laurel Lavender Leucothoe Lilac (French-Hybrids) Lily Scales Linden Locust	Polygonum sp. Laburnocytisus sp. Lantana sp. Kalmia sp. Lavandula sp. Leucothoe sp Syringa vulgaris vars. (April15-May15) Lilium (Scales) Tilia sp. Robinia sp.	1 or 2 1 3
Magnolia Maidenhair Tree Manzanita Maple (Japanese) Matrimony Vine Melastoma	Magnolia sp. Ginko biloba Arctostaphylos sp. Acer japonicum palmatum vars. Lysium halimifolium Melastoma spp.	2 or 3 2 3 3 1

Mock Orange Mulberry	Philadelphus sp. Morus alba	1
		3
Ninepark	Physocarpus sp.	
Oak	Quercus sp.	3
Oleander	Oleander nerium	2 3 ·
Olive	Olea sp.	
Orange (sour)	Citrus aurantium	3
Orixa	Orixa sp.	1 .
Osage Orange	Maclura sp.	1
Osmanthus	Osmanthus sp.	2
Pachysandra	Pachysandra terminalis	2 or 3
Pea Shrub	Caragana sp.	1
Pear (stock)	Pyrus serotina	1
Pecan	Pecan	3
Penstemon	Penstemon sp.	1
Periwinkle	Vinca sp.	2
Petunia	Petuniasp	1
Philodendron	Philodendron sp.	1
Phlox	Phlox sp.	1 .
Photinia	Photinia sp.	1
Pine	Pinus	2 or 3
Poinsettia	Euphorbia vars.	1
Poplar	Populus sp.	1
Pricklypear Cactus	Opuntia sp.	1
Privet	Ligustrum ovalifolium	. 3
Raspberry	Rubus sp.	1
Retinospora vars.	Chamaecyparis obtuse vars.	3
	Chamaecyparis ptsifera vars.	3
Rhododendron vars.	Rhododendron spp.	3
Rose	Rosa vars.	1
Russian olive	Elaeagnus sp.	3
Sage	Salvia sp.	1
Sequoia (Giant)	Sequoia giantia	2
Silverbell	Halesia sp.	2
Snapdragon	Antirrhinum sp.	1 -
Snowbell	Styrax sp.	3
Snowberry	Symphoricarpus sp.	1
Sourwood	Oxydendrum sp.	3
Speedwell	Veronica sp.	
Spirea	Spirea sp.	1
Springscent	Fothergilla major	2
Spruce(Blue)	Picea pungens	2
Spruce(Norway) vars.	Picea excelsa vars.(Nov-Feb)	1
Stevia	Stevia sp.	1
Stewartia	Stewartia pentagyna	1
St. Johnswort	Hypericum sp.	.1
Sweetleaf	Symplocos	. 1

Taxus (see Yew)

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Trofoliate-Orange	Poncirus sp.	2
Trumpet creeper	Campsis sp.	1
Tuliptree	Liriodendron sp.	3
Umbrella Pine	Sciadopitys verticillata	3
Verbena	Verbena sp.	1
Viburnum	Viburnum sp.	1
Waxmyrtle	Myrica sp.	1
Weigelia	Diervilla sp.	1
Willow	Salix sp.	1
Wintergreen	Gautheria sp.	2
Wisteria	Wisteria sp.	2
Witch Hazel	Hamamelis sp.	2
Yellowwood	Cladrastis sp.	2
Yew	Taxus spp.	3
Zelkova	Zelkova sp.	2

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE:

RootGro should be stored in its original container in a cool, dry locked place out of the reach of children and out of direct sunlight.

PESTICIDE DISPOSAL:

Wastes resulting from the use of 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.

For Residential Use:

DISPOSAL:

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 for disposal instructions. Never place unused product down any indoor or outdoor drain.

LIMITED WARRANTY AND DISCLAIMER

NOTICE: NCA Biotech, Inc., warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions For Use. Buyer assumes all risks of use and handling which is a variance in any way with the directions herein. NCA Biotech, Inc., makes no other express or implied warranty of fitness or merchantability. To the extent consistent with applicable law, in no case shall NCA Biotech, Inc., or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. NCA Biotech, Inc., and Seller offer this product and the Buyer and user accept it, subject to the foregoing Limited Warranty and Disclaimer which may be varied only by agreement in writing signed by a duly authorized representative of NCA Biotech, Inc.

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