MASTER LABEL

[Booklet is page 1 through page 15. Container Label is page 16. Alternate Homeowner Language is page 17

Simplifies Rooting of Cuttings

NET WT. 1 LB

Hormodin[®] 1

A ROOT INDUCING SUBSTANCE

ACTIVE INGREDIENT:
Indole-3-butyric Acid 0.1%
OTHER INGREDIENTS: 99.9%

Index the Federal Insecticion.
Francision and Rodenticide Act.
as expensively for the publisher of many 19916-1

ACCEPTED

AUG 2 3 2004

KEEP OUT OF REACH OF CHILDREN

CAUTION

See label insert for First Aid and Precautionary Statements.

EPA REG. NO. 69916-1

EPA EST, NO. 70908-CA-001



LABEL INSERT
DIRECTIONS FOR TREATING
CUTTINGS WITH

HORMODIN®

A Root Inducing Substance

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Active Incredient	No. 1	No. 2	No. 3
Indole-3-butyric Acid	00.1%	00.3%	00.8%
Other Ingredients	99.9%	99.7%	99.2%
EPA Reg. No.	69916-1	69916-2	69916-3

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. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

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Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticide Information Center (NPIC) 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.
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.
IF INHALED:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything to an unconscious.

PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIREMENTS: All pesticide handlers must wear the following minimum PPE while handling, transferring or applying this product. The minimum PPE include: long sleeved shirt, long pants, shoes, socks, and chemical resistant or waterproof gloves.

USER SAFETY RECOMMENDATIONS: 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 the product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present or intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal 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 to 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 agency responsible for pesticide regulations.

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person.

AGRICULTURAL USE REQUIREMENTS: Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 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 the uses of this product that are covered by the Worker Protection Standard (WPS).

ENTRY RESTRICTIONS: The restricted entry interval (REI) for this product is 0 hours.

STORAGE AND DISPOSAL

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

STORAGE: Store in a cool dry place. Keep in original container.

PESTICIDE DISPOSAL: Pesticide or rinse waters that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures under the Resource Conservation and Recovery Act. Wastes resulting from the use of the product may be disposed on site or at an approved waste disposal facility.

CONTAINER DISPOSAL (metal/plastic container): Triple rinse (or equivalent). 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.

CONTAINER DISPOSAL (fiber drums with liners): Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

INTRODUCTION

Cuttings from different varieties and species of plants, shrubs, and trees vary greatly in their capacity to form roots. Some are rooted with ease and others with difficulty, or not at all. It is assumed 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 production of different strengths of HORMODIN, paralleling 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. Three strengths of powder are recommended for application to this broad field of propagation from cultings.

TYPE OF CUTTING TO USE

Cuttings of the 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 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 HORMODIN. The basal cut may be made stanting 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 which at the same time meets the requirements for economy of space.

TIME TO TAKE CUTTINGS

Cuttings of most deciduous shrubs probably 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

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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

Keep cutting material in a fresh condition from the start. Cuttings of many varieties keep fresh when the basal ends of the stems are immersed in water or wrapped in wet cloth or burlap until ready to place in the HORMODIN. Do not keep shoots and branches in closed containers for long periods. Frequent spraying of the cutting material, according to the dryness of the air, or covering with moist cheese cloth, will prevent excessive wilting.

PLANTING CUTTINGS AND HOW TO CARE FOR THEM

After treatment with HORMODIN, plant the cuttings in a mixture of 1/4 peat moss and 3/4 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 then 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, but particularly on hot, bright days, to deep the cuttings fresh, but not dense enough to cause rotting of leaves, or the growth of molds. Immediately after planting, the cuttings should be watered thoroughly and, thereafter, according to climactic 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° are not generally satisfactory with tested cuttings.

APPLICATION OF HORMODIN:

- If not already moist, the basal ends of the cuttings should be slightly moistened before treatment. (Except geraniums.)
- 2) Stir basal ends in HORMODIN
- 3) Remove excess powder by tapping on rim of container.
- 4) Plant treated cuttings in rooting medium

NOTICE OF WARRANTY — E.C. Geiger, 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 are a variance in any way with the directions hereon. E.C. Geiger, Inc makes no other express or implied warranty of Fitness or Merchantability of any other express or implied warranty. In no case shall E.C. Geiger, Inc or the seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. E.C. Geiger, Inc and the Seller offer this product and the Buyer and user accept it, subject to the foregoing Notice of Warranty which may be varied only by agreement in writing signed by a duly authorized representative of E.C. Geiger, Inc.

The following plants have been successfully rooted with HORMODIN. Cuttings which respond satisfactorily to HORMODIN 1 would undoubtedly be injured by use of HORMODIN 3, and in some cases by HORMODIN 2. For species not mentioned in the following list it is suggested that HOR-MODIN 1 or 2 be used.

Abbreviations: Species = sp. Varieties = vars.

Common Name*	Scientific Name	HORMODI
		No.
Acanthopanax	Acanthopanax sp	3
African Violet	Saint paulia sp	1
Ageratum	Ageratum sp	1
Andromeda	Andromeda japonica	1
Apple	Maius sp.	2 or 3
Arbor-Vitae (Thuja) vars	Thu ja eliwangeriana aurea nana	2
	Thu ja occidentalis vars	2 or 3
Arbutus (Trailing)	. Epigaea repens	3
Ardisia	Ardisia japonica	2
Azalea vars	Azalea arborescens (June-Aug.)	3
	Azalea arborescens grandiflora	3
	Azalea calendulaceum	3
	Azalea canadense	3
	Azalea canescens	3
	Azalea Christmas Cheer	1
	Azalea colletianum	3
	Azalea Coral Bell	1
	Azalea dauricum (June-July)	2
	Azalea gandavense (hybrids)	2
	Azalea kosterianuma Miss Louisa Hunney	vell . 3
	Azalea kurume vars. (June-July)	, 1
	Azalea mollis	2
	Azalea mucronatum	1
	Azalea obtusa hinodigiri	1
	Azalea obtusa kaempieri	1
	Azalea Pink Pearl	1
	Azalea roseum	3
	9	

		No.
Azalea vars (continued)	Azalea schlippenbachii	3
	Azalea Snow	1
	Azalea vase yi	1
	Azalea viscosum	2
	Azalea yedoense poukhanense	1
Barberry	Berberis sp	1
Bayberry	Myrica sp.	1
Beauty Berry	Callicarpa sp.	1
Beauty Bush	Kilwitzia amabilis (fips) (June-July)	3
Beech	Fagus sp. (Aug.)	2
Begonia	Begonia sp.	1
Birch	Betula sp.	3
Bittersweet	Celastrus sp.	3
Blackberry	Rubus sp	1
Bluebeard	Carvopteris sp.	1
Blueberry	Vaccinium corymbosum vars.	1 or 2
Bougainvillea	Bougainvillea sp	1
Bowstring-Kemp (Snake Plant) .	Sanserveria	1
Boxwood	Buxus so.	3
Broom	Cystisus sp.	1 or 2
Bush Arbutus	Abelia grandiflora rosea alba (tips best)	1
Butter fivousn	Buddleia sp	1
Camelia	Camellia sp.	3
Candytuft	Iberis sp	1
Carnation	Dianthyus vars	1
Catalpa	Catalpa sp.	3
Chaste Tree	Vitex sp	3
Chestnut	Castanea sp	2
Chokeberry	Aronia sp	2 or 3
Chrysanthemum	Chrysanthemum vars	1
Cinquefoil	Potentilla sp.	2
Clematis	Clematis sp	2
Clerodendron	Clerodendron	1
Clockvine	Thunbergia sp.	1
Coleus	Coleus blumei	1
	10	

Scientific Name

HORMODIN

Common Karne*

Common Name*	Scientific Name	HORMODIN Na
Cotoneaster	Cotoneaster horizontalis	
Crabapple	Malus sp	2 or 3
	Lagerstroemia indica	
Crassula		
	Parthenocissus so.	
	Codiaeum	
	Cryptomeria sp	
	Ribes tenuitorum	
	Dahlia vars.	
	Daphne sp	
Deutzia	Deutzia megnifica	1
Dewherry	Rubus sp.	1
	Cornus florida (July)	
Dovetree	Davidia sp.	1
Douglas fir	Pseudotsuga sp.	4
Dracena	Dracena sarderiana	1
Dutchmanspipe		
Elder		
Flm		
Escailonia		
Euonymus		
False arborvitae		
Fir	, , , , , , , , , , , , , , , , , , ,	2
Firethorn	Pyracantha sp.	1 or 2
	Prunus sp. and vars.	
Flowering quince		3
	Fontanesia sp.	1
Forsythia		
	Gordonia alatamaha	
Fringe tree		
Fuchsia		
Gardenia		
Geranium		
	Teucrium sp.	

11

Common Name*	Scientific Name	HORMODIN	Common Name*	Scientific Name	HORMODIN	Common Name"	Scientific Name	HORMODIN
Golden Chain	Laburnum	2	Lilac (French-Hybrids)	Syringa vulgaris vars. (April 15-May 25)	i c	Ва зроету	Rubus sp.	i _
Grape	Vitis sp. and vars.	6	Lily Scales	Lillium (scales)	. 1 or 2	Retinospora vars.	Chamaecyparis obtusa vars.	e2
Hawthorne	Crateagus sp.	63	Linden	Trita sp.	-		Chamaccyparis pisitera vars.	es :
Hazelnut	Carylus sp. (June)	1 or 2	Locust	Robinia sp.	ر ي :	Rhododendron vars	Rhododendron (hybrids)	
Heath	Enca camea vars	en	Magnotia	Magnolia sp.	2 0r 3		Rhododendron catawbiense hybrids	es :
Heather	Caluna vulgans vars.		Maidenhair Tree	Ginko biloba	2		Rhododendron wilsonii	en :
Hernfock vars.	Tsuga sp. and vars. (Sept -June) 2 c	2013	Manzanita	Arctostaphylos sp.	<u>س</u>	Rose	Rosa vars.	-
Hibisous	Hibiscus (Topical)	2	Maple (Japanese) vars.	Acer japonicum palmatum vars.	en :	Russian olive	Elæagnus sp.	e :
Hibisous (Rose of Sharon)	Hibiscus syriacus vars (leafy and do	mant) . 3	Matimony Vine	Lycium halimitolium	۳,	Sage	Satvia sp.	
Hoffy (American)	flex opaca.	۳.	Melastoma	Melastoma		Sequora (Giant)	Sequoia giantia	2
		3	Mock Orange	-	-	Silverbell	Halesfa sp.	
Holly (Chinese)		~	Mulberry		-	Snapdragon	Artischinum Sp.	<u>-</u>
Holly (English)		6	Ninepark	Physocarpus sp.	۳	Snowbell	Styraxsp.	e :
Holly (Japanese)	llex crenara vars.	2	O.*	Orenza so.	۳:	Snowberry	Symphoricarpus sp.	-
Honeysuckle	_		Oleander	Oleander nerum		Sourwood	Oxydendrum sp.	6
Hydrandea	_	-	Q#ve	Otea sp.	"	Speedwell	Veronica sp.	
Jasmine	Jasminum nuditionum	,	Orange (sour)		60	Spirea	Spireasp	-
Jetbead	_	-	Orixa			Springscent	Fothergilla major	. 2
Juniper vars.	_	es:	Osage Orange	Mactura sp.	-	Spruce (Blue)	Picea pungens	
	Amiperus chinensis iaponica	2	Osmanthus	Osmanthus sp.	2	Spruce (Norway) vars	Picea excelsa vars. (Nov. Feb.)	
	Juniperus chinensis pfitzariana	2	Pachysandrz	Pachysandra ferminalis	2 or 3	Stevia	Stevia sp.	-
	Juniperus columns hillii (dwart)	2	Pea Shrub	Caragana sp.	-	Stewarts	Stewartia pentagina	<u>-</u>
	Juniperus Communis vars.	en	Pezr (stock)	Pyrus serotina	-	St Johnswort	Hypericum sp.	-
	Juniperus conferta	6	Pecan	Pecan	63	Sweetleaf	Symptocos	-
	Juniperus rigida 2	2	Pensternon	Penstemon sp.	-	Taxus (See Yew)		:
	Juniperus sabina fastigiata		Periwinide	. Vinca sp.	2	Trifohale-Orange	Poncifus sp.	.: 5
	Juniperus squamata fargesif	2	Peturia	Petunia sp.	-	Trumpet creeper	. Campsis sp	-
	Juniperus virginiana vars.		Philodendron	Philodendron sp.		Tuliptree	Liriodendron sp	ص :
Kerna	Kerna sp.		Phlox	Phloxsp.	- : : :	Umbrella Pine	Sciadopili ys verticiitata	e :
Knotweed	Polygonum sp.	en	Photinia	Photinia sp.		Verbena	Verbena sp.	-
Labumocyfisus	_	1 01 2	Pine	Pinus sp.	2 or 3	Wburnum	Viburnum sp.	- :
Lantana		-	Poinsettía	Euphorbia vars.	-	Waxmyrte	Myca sp.	-
Laird	-	e :	Poplar	Populus sp.		Weigelia	Diervilla sp.	-
:	Lavandula sp.	-	Pricklypear Cactus	Opuratia sp.	-	Willow	Salix sp.	- :
	Leucathoe sp.	2	Privet	Ligustrum avaitolium	es :	Wintergreen	Gautheria sp.	~
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Cemmon Name*	Scientific Name	HORMODIA No.
Wisteria	Wisteria sp	2
Witch Hazel	Hamamelis sp	2
Yellowwood	Cladrastis sp	2
Yew	Taxus baccata vars	3
	Taxus cuspidata vars	3
	Taxus media hattieldii	3
	Taxus media hicksii	3
Zelkova	Zelkova sp	2

*Standardized Plant Names.

E.C. Geiger, Inc. Rte. 63, Box 285 Harleysville, PA 19438 Phone: (800) 443-4437

hone: (800) 443-4437 ESL 101698 REV 062804

Extended Text® INTEG™ has the following Patents: U.K. & Europe 0130053, U.S.A. 4592572, Canada 1231526.



Hormodin 1

HORMODIN 1 is a general purpose powder designed for the home gardener or commercial florist who propagates popular varieties such as roses, carnations, poinsettias, some species of shrubs, and most home, garden and greenhouse plants.

For further details see Directions for Use in enclosed lolder.

Lot

Easy to Use Just Dip and Plant Clean

Made in U.S.A.

Simplifies Rooting of Cuttings

NET WT. 1 LB

Hormodin[®] 1

KEEP OUT OF REACH OF CHILDREN

CAUTION

See label insert for First Aid and Precautionary Statements.

EPA REG. NO. 69916-1

EPA EST. NO. 70908-CA-001

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard. Restricted Entry Interval (REI) of this product is 0 hours.

One pound of HORMODIN 1 will treat at least 35,000 average cuttings.

For further details see Directions for Use in enclosed folder.

E.C. Geiger, inc. Rte. 63, Box 285 Harleysville, PA 19438 Phone: (800) 443-4437

[Additional Bullet Points]

- Grow New Plants From Cuttings!
- Growing New Plants From Cuttings is Easy!
- · As Simple as Cut, Dip and Plant!
- · Same Formula used by professionals!
- SIMPLE, READY-TO-USE
- ROOTING HORMONE
- [Product Name] is a general purpose powder for the home gardener who wants to propagate popular varieties such as: African Violets, Carnations, Fuchsia, Geraniums, Jasmine, Willow, Viburnum, Roses, Begonias, Gardenias, Coleus, Philodendrons, Bougainvillea, Poinsettias, Chrysanthemums, Euonymous, Hydrangeas, Phlox, Raspberry and most other home, garden and greenhouse plants.
- Propagating plants from cuttings is an easy inexpensive way to multiply your plant supply and share garden favorites with others. And it's the only way to
 assure new plants will show the same flowering and fruiting qualities admired in hybrid parents.
- Use [Product Name] to grow cuttings from your favorite plants including: African Violets, Roses, Poinsettias, Philodendrons, Geraniums, Coleus, Woody Ornamentals, Most other popular home, garden and greenhouse varieties.
- New [permitted for six months after first retail sale]
- Grow New Plants From Cuttings Fast!
 - Geraniums Coleus Woody ornamentals African violets Roses
 - · Poinsettias · Philodendrons
 - · Most other popular home, garden and greenhouse varieties

[Advertising and Recommendations for other related products may follow. ie: plant foods, soil, potting and planting mixes & soil conditioners, gardening tools, containers, etc.] and [Paragraph format for FIRST_AID may be used on small containers]



[Alternate Language for Homeowner use]
Stop. Read Entire Label Before Use.
APPLICATION OF [Product Name]

- 1. The cut ends of the cuttings should be slightly moistened before treatment.
- 2. Stir cut ends in [Product Name] powder.
- 3. Remove excess powder by tapping on rim of container.
- 4. Plant treated cuttings in a rooting medium such as [potting soil, mix, etc.] Mist regularly.

[Homeowner Use Storage and Disposal]

STORAGE AND DISPOSAL

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

STORAGE: Store in a cool dry place. Keep in original container.

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.

[Homeowner (Nonagricultural) use may delete WPS.]