

HORMODIN 3 – MASTER LABEL -- (CONTAINER LABEL)
With "0" hour REI interval as per amendment resubmitted June 10, 1998

Hormodin® 3

A ROOT INDUCING SUBSTANCE

HORMODIN 3 is prepared specially for propagating the more difficult-to-root varieties, including many of the evergreens and dormant leafless cuttings.

For further details see *Directions for Use* in enclosed folder.

Lot

Easy to Use

Just Dip and Plant

Clean

Net Wt. = 8 oz

|||||Bar Code|||||

Made in Canada

**Simplifies Rooting of
Cuttings**

NET Wt. 8 oz

(Alt. Sizes = 25g, 4 oz, 1 & 50 LB)

Hormodin® 3

A ROOT INDUCING SUBSTANCE

Active Ingredient:

Indole-3-butyric Acid 0.8%

Inert Ingredients: 99.2%

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

KEEP OUT OF REACH OF CHILDREN

CAUTION

See label insert for additional
precautionary statements.

EPA REG. NO. 69916-3

EPA EST. NO. 69697-CAN-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.

Eight ounces of HORMODIN 3 will treat at least 17,500 average cuttings.

For further details see *Directions for Use* in enclosed folder.

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

ACCEPTED
OCT 16 1998
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 69916-3

PM
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69916-3
10/16/98
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HORMODIN 1, 2 or 3 – MASTER LABEL – Page 2; First page of "enclosed folder."
With "0" hour REI interval as per amendment resubmitted June 10, 1998

LABEL INSERT

DIRECTIONS FOR TREATING CUTTINGS WITH

HORMODIN®
A Root Inducing Substance

HORMODIN is supplied in the following strengths:

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

PRECAUTIONARY STATEMENTS

KEEP OUT OF REACH OF CHILDREN.

CAUTION!

Hazards to Humans and Domestic Animals

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.

STATEMENT OF PRACTICAL TREATMENT

If on skin: Wash thoroughly with 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.

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 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 regulation.

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

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse container.

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 DIAPOSAL (metal 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 DIAPOSAL (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 cuttings.

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 slanting 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 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 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. Shoots and branches should not be kept 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, 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, but particularly on hot, bright days, to keep 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 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° are not generally satisfactory with tested cuttings.

APPLICATION OF HORMODIN:

- 1) 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 at variance in any way with the directions hereon. E. C. Geiger, Inc., makes no other express or implied warranty of Fitness or Merchantability or 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 of 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 entered by a duly authorized representative of E. C. Geiger, Inc.

E.C. Geiger, Inc.
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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 HORMODIN 1 or 2 be used.

Abbreviations: Species = sp. Varieties = vars.

Common Name*	Scientific Name	HORMODIN No.
Acanthopanax	<i>Acanthopanax</i> sp.	3
African Violet	<i>Sanpaulia</i> sp.	1
Ageratum	<i>Ageratum</i> sp.	1
Andromeda	<i>Andromeda japonica</i>	1 or 3
Apple	<i>Malus</i> sp.	2 or 3
Arbor-Vitae (Thuja) vars.	<i>Thuja eilwangerana aurea nana</i>	2
	<i>Thuja occidentalis</i> vars.	2 or 3
Arbutus (Trailing)	<i>Epigaea repens</i>	3
Ardisia	<i>Ardisia japonica</i>	2
Azalea vars.	<i>Azalea arborescens</i> (June-Aug.)	3
	<i>Azalea arborescens grandiflora</i>	3
	<i>Azalea cilendulaceum</i>	3
	<i>Azalea canadense</i>	3
	<i>Azalea canescens</i>	3
	<i>Azalea Christmas Cheer</i>	1
	<i>Azalea coccineum</i>	3
	<i>Azalea Coral Bell</i>	1
	<i>Azalea dauricum</i> (June-July)	2
	<i>Azalea gandakense</i> (hybrids)	2
	<i>Azalea kosterianuna</i> Miss Louisa Hunnewell	3
	<i>Azalea kurume</i> vars. (June-July)	1
	<i>Azalea mollis</i>	2
	<i>Azalea mucronatum</i>	1
	<i>Azalea obtusa hindsgrii</i>	1
	<i>Azalea obtusa kaempferi</i>	1
	<i>Azalea Pink Pearl</i>	1
	<i>Azalea roseum</i>	3
	<i>Azalea schlippenbachii</i>	3
	<i>Azalea Snow</i>	1
	<i>Azalea vaseyi</i>	1
	<i>Azalea viscosum</i>	2
	<i>Azalea yedoense poukhanense</i>	1
Barberry	<i>Berberis</i> sp.	1
Bayberry	<i>Myrica</i> sp.	1
Beauty Berry	<i>Callicarpa</i> sp.	1
Beauty Bush	<i>Kirkcaldia amabilis</i> (tips) (June-July)	3
Beech	<i>Fagus</i> sp. (Aug.)	2
Begonia	<i>Begonia</i> sp.	1
Birch	<i>Betula</i> sp.	3
Bittersweet	<i>Celastrus</i> sp.	3
Blackberry	<i>Rubus</i> sp.	1
Bluebeard	<i>Caryopteris</i> sp.	1
Blueberry	<i>Vaccinium corymbosum</i> vars.	1 or 2
Bougainvillea	<i>Bougainvillea</i> sp.	1
Bowstring-Kemp (Snake Plant)	<i>Sanseveria</i>	1
Boxwood	<i>Buxus</i> sp.	3
Broom	<i>Cytisus</i> sp.	1 or 2
Bush-Arbutus	<i>Abelia grandiflora rosea alba</i> (tips best)	1
Butterflybush	<i>Buddleia</i> sp.	1
Camelia	<i>Camellia</i> sp.	3
Candytuft	<i>Iberis</i> sp.	1
Carnation	<i>Dianthus</i> vars.	1
Catalpa	<i>Catalpa</i> sp.	3
Chaste Tree	<i>Vitex</i> sp.	3
Chestnut	<i>Castanea</i> sp.	2
Chokeberry	<i>Aronia</i> sp.	2 or 3
Chrysanthemum	<i>Chrysanthemum</i> vars.	1
Cinquefoil	<i>Poa stultia</i> sp.	2
Clematis	<i>Clematis</i> sp.	2
Clerodendron	<i>Clerodendron</i>	1
Clockvine	<i>Thunbergia</i> sp.	1
Coleus	<i>Coleus blumei</i>	1
Coloneaster	<i>Crataegus horizontalis</i>	3
Crabapple	<i>Malus</i> sp.	2 or 3
Crape Myrtle	<i>Lagerfloraria indica</i>	1
Crassula	<i>Crassula rubicunda</i>	1

Common Name*	Scientific Name	H. No.	DIN
Creper	<i>Pithecolobium</i> sp.	1	
Croton	<i>Codiaeum</i>	1	
Cryptomena	<i>Cryptomena</i> sp.	3	
Currant	<i>Ribes tenuiflorum</i>	1	
Dahlia	<i>Dahlia</i> vars.	1	
Daphne	<i>Daphne</i> sp.	1 or 2	
Deutzia	<i>Deutzia magnifica</i>	1	
Dewberry	<i>Rubus</i> sp.	1	
Quanthus (See Carnation)			
Dogwood	<i>Cornus florida</i> (July)	3	
Dovetree	<i>Davidia</i> sp.	1	
Douglas fir	<i>Pseudotsuga</i> sp.	3	
Dracena	<i>Dracena sandenana</i>	1	
Dutchmanspipe	<i>Anstolochia</i> sp.	1	
Elder	<i>Sambucus</i> sp.	1 or 2	
Elm	<i>Ulmus</i> sp. (June-July)	1	
Escallonia	<i>Escallonia</i> sp.	3	
Euonymus	<i>Euonymus</i> sp.	1	
False arbutiate	<i>Thujopsis</i> sp.	2	
Fir	<i>Abies</i> sp.	3	
Firethorn	<i>Pyracantha</i> sp.	1 or 2	
Flowering Cherry vars.	<i>Prunus</i> sp. and vars.	1	
Flowering quince	<i>Chaenomeles</i> sp.	3	
Fontanesia	<i>Fontanesia</i> sp.	1	
Forsythia	<i>Forsythia</i> sp. and vars.	1	
Franklinia	<i>Gordonia altamaha</i>	2	
Fringe tree	<i>Chionanthus</i> sp.	2	
Fuchsia	<i>Fuchsia</i>	1	
Gardenia	<i>Gardenia florida</i>	1, 2 or 3	
Geranium	<i>Geranium</i>	1	
Germander	<i>Teucrium</i> sp.	2 or 3	
Golden Chan	<i>Laburnum</i>	2	
Grape	<i>Vitis</i> sp. and vars.	3	
Hawthorne	<i>Crateagus</i> sp.	3	
Hazelnut	<i>Corylus</i> sp. (June)	1 or 2	
Heath	<i>Erica carnea</i> vars.	3	
Heather	<i>Calluna vulgaris</i> vars.	3	
Hemlock vars.	<i>Tsuga</i> sp. and vars. (Sept.-June)	2 or 3	
Hibiscus	<i>Hibiscus</i> (tropical)	2	
Hibiscus (Rose of Sharon)	<i>Hibiscus syriacus</i> vars. (leafy and dormant)	3	
Holly (American)	<i>Ilex opaca</i>	3	
	<i>Ilex pernyi</i>	3	
Holly (Chinese)	<i>Ilex cornuta</i>	3	
Holly (English)	<i>Ilex aquifolium</i>	3	
Holly (Japanese)	<i>Ilex crenata</i> vars.	2	
Honeysuckle	<i>Lonicera</i> sp.	1	
Hydrangea	<i>Hydrangea</i>	1	
Jasmine	<i>Jasminum nudiflorum</i>	1	
Jetbead	<i>Rhodotylops</i> sp.	1	
Juniper vars.	<i>Juniperus chinensis</i> vars.	3	
	<i>Juniperus chinensis japonica</i>	2	
	<i>Juniperus chinensis pfitzeriana</i>	2	
	<i>Juniperus columenis hilla</i> (dwarf)	2	
	<i>Juniperus communis</i> vars.	3	
	<i>Juniperus conferta</i>	3	
	<i>Juniperus rigida</i>	2	
	<i>Juniperus sabinia fastigiata</i>	2	
	<i>Juniperus squamata largesii</i>	2	
	<i>Juniperus virginiana</i> vars.	3	
Kernia	<i>Kernia</i> sp.	1	
Knotweed	<i>Polygonum</i> sp.	3	
Laburnocytisus	<i>Laburnocytisus</i> sp.	1 or 2	
Lantana	<i>Lantana</i> sp.	1	
Laurel	<i>Kalmia</i> sp.	3	
Lavender	<i>Lavandula</i> sp.	1	
Leucothoe	<i>Leucothoe</i> sp.	2	
Lilac (French-Hybrids)	<i>Syringa vulgaris</i> vars. (April 15-May 25)	3	
Lily Scales	<i>Lilium</i> (scales)	1 or 2	
Linden	<i>Tilia</i> sp.	1	
Locust	<i>Robinia</i> sp.	3	
Magnolia	<i>Magnolia</i> sp.	2 or 3	
Middlehair Tree	<i>Ginkgo biloba</i>	2	

Common Name*	Scientific Name	HORMODIN No.
Manzanita	<i>Arctostaphylos</i> sp.	3
Maple (Japanese) vars.	<i>Acer japonicum palmatum</i> vars.	3
Matrimony Vine	<i>Lycium halimifolium</i>	3
Melastoma	<i>Melastoma</i>	1
Muck Orange	<i>Phakodolophus</i> sp.	1
Mulberry	<i>Morus alba</i>	1
Ninepark	<i>Physocarpus</i> sp.	3
Oak	<i>Quercus</i> sp.	3
Oleander	<i>Oleander neriun</i>	2
Olive	<i>Olea</i> sp.	3
Orange (sour)	<i>Citrus aurantium</i>	3
Orixa	<i>Orixa</i> sp.	1
Osage Orange	<i>Maclura</i> sp.	1
Osmanthus	<i>Osmanthus</i> sp.	2
Pachysandra	<i>Pachysandra terminalis</i>	2 or 3
Pea Shrub	<i>Caragana</i> sp.	1
Pear (stock)	<i>Pyrus serotina</i>	1
Pecan	<i>Pecan</i>	3
Paristanon	<i>Paristanon</i> sp.	1
Periwinkle	<i>Vincia</i> sp.	2
Petunia	<i>Petunia</i> sp.	1
Phloxendron	<i>Phloxendron</i> sp.	1
Phlox	<i>Phlox</i> sp.	1
Phytolita	<i>Phytolita</i> sp.	1
Pine	<i>Pinus</i> sp.	2 or 3
Poinsettia	<i>Euphorbia</i> vars.	1
Poplar	<i>Populus</i> sp.	1
Pricklypear Cactus	<i>Opuntia</i> sp.	1
Privet	<i>Ligustrum ovalifolium</i>	3
Raspberry	<i>Rubus</i> sp.	1
Retinospora vars.	<i>Chamaecyparis obtusa</i> vars.	3
	<i>Chamaecyparis pisifera</i> vars.	3
Rhododendron vars.	<i>Rhododendron</i> (hybrids)	3
	<i>Rhododendron catalawense hybrids</i>	3
	<i>Rhododendron wilsonii</i>	3
Rose	<i>Rosa</i> vars.	1
Russian olive	<i>Elaeagnus</i> sp.	3
Sage	<i>Salvia</i> sp.	1
Sequoia (Giant)	<i>Sequoia gigantea</i>	2
Silverbell	<i>Halesia</i> sp.	2
Snopdragoon	<i>Antirrhinum</i> sp.	1
Snowbell	<i>Slyria</i> sp.	3
Snowberry	<i>Symphoricarpos</i> sp.	1
Sourwood	<i>Daphnogenia</i> sp.	3
Speedwell	<i>Veronica</i> sp.	1
Spiraea	<i>Spiraea</i> sp.	1
Springscent	<i>Fothergilla major</i>	2
Spruce (Blue)	<i>Picea pungens</i>	1
Spruce (Norway) vars.	<i>Picea excelsa</i> vars. (Nov.-Feb.)	1
Stevia	<i>Stevia</i> sp.	1
Stewartia	<i>Stewartia pentagyna</i>	1
St. Johnswort	<i>Hypericum</i> sp.	1
Sweetleaf	<i>Symplocos</i>	1
Taxus (See Yew)		
	<i>Panicum</i> sp.	2
	<i>Campsis</i> sp.	1
	<i>Lindodendron</i> sp.	3
	<i>Sciadopitys verticillata</i>	3
	<i>Verbena</i> sp.	1
	<i>Viburnum</i> sp.	1
	<i>Myrica</i> sp.	1
	<i>Diervilla</i> sp.	1
	<i>Salix</i> sp.	1
	<i>Gaufferia</i> sp.	2
	<i>Wisteria</i> sp.	2
	<i>Hamamelis</i> sp.	2
	<i>Cladrastis</i> sp.	2
	<i>Taxus baccata</i> vars.	3
	<i>Taxus cuspidata</i> vars.	3
	<i>Taxus media hillebrandii</i>	3
	<i>Taxus media hicksii</i>	3
Zelkova	<i>Zelkova</i> sp.	2

*Standardized Plant Names

Commercial Label
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