HORMODIN 3 is prepared specifically for propagating the more difficult-to-root varieties, bioluding 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

REV020210

Made in Canada

**Simplifies Rooting of** Cuttings

NET WT. 8 oz.

ACTIVE INGREDIENT: 

KEEP OUT OF REACH OF CHILDREN CAUTION

See label insert for additional precautionary statements.

EPA REG. NO. 59807-3 EPA EST. NO. 69897-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.

OHP, Inc. PO Box 230 Mainland, PA 19451 Phone: (800) 356-4647



Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 5 9807 - 3

Simplifies Rooting of Cuttings

NET WT. 8 oz.



KEEP OUT OF REACH OF CHILDREN

CAUTION

See label insert for additional precautionary statements.

EPA REG, NO. 59807-3 EPA EST, NO. 69897-CAN-001

LABEL INSERT DIRECTIONS FOR TREATING CUTTINGS WITH

# **HORMODIN®**

A Root Inducing Substance

 HORMODIN is supplied in the following strengths:

 Active Ingredient Indole-3-butyric Acid Other Ingredients
 No. 1 Other Ingredients
 No. 2 Other Ingredients
 No. 3 Other Ingredients

 EPA Reg. No.
 59807-4
 59807-2
 59807-3

# PRECAUTIONARY STATEMENTS Hazards to Humans and Oomestic Animals

# **CAUTION**

Causes moderate eye irritation. Wear protective eyewear (goggles, face shield or safety glasses). Harmful if inhaled or absorbed through the skin. Avoid contact with eyes, skin or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

	FIRST AID
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 ON SKIN Or Clothing:	Take off contaminated clothing.     Rinse skin immediately with plenty of water for 15 - 20 minutes.
IF INHALED:	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to- mouth, if possible.</li> </ul>
IF SWALLOWED:	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything to an unconscious person.</li> </ul>

#### FIRST AID (cont.)

Call a poison 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 OHP, Inc. at 1-800-356-4647, 24 hours / 365 days, for emergency medical treatment.

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, protective eyewear (goggles, face shield or safety glasses) 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**

For Terrestrial Uses: 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 or rinsates.

#### **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 regulations.

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.

AGRICULTURAL USE REQUIREMENTS (cont.): 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.

#### **GENERAL INFORMATION**

HORMOOIN may be used on three types of cuttings;

- Hardwood: such as Dogwood, Juniper, broadleaf and needle evergreens.
- Semi-Hardwood: such as broadleaf evergreens and woody ornamentals with firm wood and mature leaves such as Azalea, Rhododendrons, Magnolia and Photinia.
- Softwood and Succulents: such as Cactus, Fuchsia, Ice Plant and Begonia.

Select cuttings from healthy plants. Success is generally best when taking softwood cuttings or "new wood". Timing is important. Professionals propagate year round but two good times for taking cuttings are:

- in the fall using mature dormant growth which would be classified as a hardwood or semi-hardwood cutting
- in the spring when the cutting would be new growth or classified as a softwood cutting.

Fertilizer can encourage top growth and may not be used for one week after treatment.

**HORMODIN 1, 2** or **3** are recommended for different plants and parallel the range of hormones found normally by the various plants. Refer to the following list for the correct **HORMODIN** to use for the 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

Throughout the United States, the time to take cuttings will be dependent on when new growth starts. Cuttings of the current

season's growth, 4 to 6 inches in length, generally are the most satisfactory.

Note: Cuttings of certain plants can be taken over a much wider range of time in the South than in the North, and corresponding season advance must be considered.

In the State of New York, cuttings of most deciduous shrubs will root best when taken during June, July and August. A few varieties can be taken the latter part of April, and others during May, depending upon when new growth starts. Cuttings of the current season's growth. 4 to 6 inches in length, generally are the most satisfactory. Cuttings taken between August and December will vary considerably in their capacity to root.

For plants grown indoors, cuttings should be 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 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 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
- Remove excess powder by tapping on rim of container.
- 4) Plant treated cuttings in rooting medium

#### 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.

Nonrefillable container. Do not reuse or refill this container.

CONTAINER DISPOSAL (metal/plastic container): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

#### STORAGE AND DISPOSAL (cont.)

CONTAINER DISPOSAL (fiber drums with liners): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

NDTICE OF WARRANTY — OHP, 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. To the extent applicable by law, buyer assumes all risks of use and handling which are a variance in any way with the directions hereon. To the extent applicable by law, OHP, Inc. makes no other express or implied warranty of Fitness or Merchantability of any other express or implied warranty. To the extent applicable by law, in no case shall OHP, Inc. or the seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. OHP, 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 OHP, Inc.

The following plants have been successfully rooted with **HORMODIN**. 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	Acanthopanax sp	3
African Violet	Saintpaulia sp	1
Ageratum	Ageratum sp	1
Andromeda	Andromeda japonica	1
Apple	Malus sp	2 or 3
Arbor-Vitae (Thuja) vars	Thuja eliwangeriana aurea	nana 2
	Thuja occidentalis vars	2 or 3
Arbutus (Trailing)	Epigaea repens	3
Ardisia	Ardisia japonica	2
Azalea vars	Azalea arborescens (June-	Aug.) 3
	Azalea arborescens grandil	lora 3
	Azalea calendulaceum	3
	Azalea canadense	3
	Azalea canescens	3
	Azalea Christmas Cheer	1
	Azalea colletianum	3
	Azalea Coral Bell	
	Azalea dauricum (June-Jul	/) 2
	Azalea gandavense (hybrid	s) 2
	4.4	

Common Name*	Scientific Name	HORMODIN No.
Azalea vars. (continued)	Azalea kosterianuma Miss Lo	uisa Hunnewell . 3
	Azalea kurume vars. (June-	July) 1
	Azalea mollis	2
	Azalea mucronatum	1
	Azalea obtusa hinodigiri	1
	Azalea obtusa kaempieri .	1
	Azalea Pink Pearl	
	Azalea roseum	3
	Azalea schlippenbachii	3
	Azalea Snow	1
	Azalea vaseyi	1
	Azalea viscosum	
	Azalea yedoense poukhane	nse 1
Barberry	Berberis sp	1
Bayberry	Myrica sp	1
Beauty Berry		
Beauty Bush	Kikwitzia amabilis (tips) (J	une-July) 3
Beech		
Begonia		
Birch	Betula sp	
Bittersweet		
Blackberry		
Bluebeard	Caryopteris sp	
Blueberry		
Bougainvillea		
Bowstring-Kemp (Snake Plant) .	Sanserveria	1
	12	

12

Common Name*	Scientific Name	HORMODIN No.	Common Name*	Scientific Name	HORMODIN No.
Boxwood	Buxus sp	3	Daphne	Daphne sp	1 or 2
Broom	Cystisus sp	1 or 2	Deutzia	Deutzia megnifica	1
Bush-Arbutus	Abelia grandiflora rosea	alba (tips best) , 1	Dewberry	Rubus sp	1
Butterflybush	Buddleia sp	1	Dianthus (See Carnation)		
Camelia			Dogwood	Cornus florida (July)	3
Candyluft	Iberis sp	1	Dovetree		
Carnation			Douglas fir		
Catalpa			Dracena		
Chaste Tree	Vitex sp	3	Dutchmanspipe	Aristolochia sp	1
Chestnut	Castanea sp	2	Elder	Sambucus sp	1 or 2
Chokeberry	Aronia sp	2 or 3	Elm	Ulmus sp. (June-July)	1
Chrysanthemum	Chrysanthemum vars.	1	Escailonia	Escallonia sp	3
Cinquefoil	Potentilla sp	2	Euonymus	Euonymus sp	1
Clematis	Clematis sp	2	False arborvitae	Thujopsis sp	2
Clerodendron	. Clerodendron	1	Fir	Abies sp	3
Clockvine	. Thunbergia sp	1	Firethorn	Pyracantha sp	1 or 2
Coleus	. Coleus blumei		Flowering Cherry vars	Prunus sp. and vars	1
Cotoneaster	Cotoneaster horizontalis	5 3	Flowering quince	Chaenomeles sp	3
Crabapple			Fontanesia	Fontanesia sp	1
Crape Myrtle	. Lagerstroemia indica .	1	Forsythia	Forsythhia sp. and vars	
Crassula	Crassula rubicunda	1	Franklinia	Gordonia alatamaha	2
Creeper	. Parthenocissus sp	1	Fringe tree	Chionanthus sp	2
Croton	. Codiaeum	1	Fuchsia	Fuchsia	
Cryptomeria	. Cryptomeria sp	3	Gardenia	Gardenia florida	1, 2 or 3
Currant	. Ribes tenuitorum	1	Geranium	Geranium	
Dahlia	. Dahlia vars	1	Germander	Teucrium sp	2 or 3
	13			14	

Common Name*	Scientific Name	HORMODIN No.	Common Name*	Scientific Name	HORMDDIN No.
Golden Chain	Laburnum	2	Juniper vars. (continued)	Juniperus squamata fargesi	ii 2
Grape	Vitis sp. and vars	3		Juniperus virginiana vars.	3
Hawthorne	Crateagus sp		Kerria	Kerria sp	1
Hazelnut	Corylus sp. (June)		Knotweed	Polygonum sp	3
Heath	Erica carnea vars		Laburnocytisus	Laburnocytisus sp	1 or 2
Heather	Caluna vulgaris vars	3	Lantana	Lantana sp	1
Hemlock vars	Tsuga sp. and vars. (Sept.		Laurel	Kalmia sp	3
Hibiscus	Hibiscus (tropical)		Lavender		
Hibiscus (Rose of Sharon)			Leuchothoe	Leucothoe sp	2
Holly (American)	llex opaca		Lilac (French-Hybrids)	Syringa vulgaris vars. (Apri	115-May 25) . 3
, , , , , , , , , , , , , , , , , , , ,	flex pernyi		Lily Scales		
Holly (Chinese)	Ilex cornuta	3	Linden	Tilia sp	1
Hotly (English)			Locust	Robinia sp	3
Holly (Japanese)			Magnolia	Magnolia sp	2 or 3
Honeysuckle			Maidenhair Tree	Ginko biloba	2
Hydrangea	Hydrangea	1	Manzanita	Arctostaphylos sp	3
Jasmine	Jasminum nudiflorum	1	Maple (Japanese) vars	Acer japonicum palmatum	vars 3
Jetbead	Rhodotypus sp	1	Matrimony Vine		
Juniper vars	Juniperus chinensis vars.	3	Melastoma	Melastoma	1
	Juniperus chinensis japon		Mock Orange	Philadelphus sp	1
	Juniperus chinensis pfitze	riana 2	Mulberry	Morus alba	1
	Juniperus columnis hillii (	dwarf) 2	Ninepark	Physocarpus sp	3
	Juniperus communis vars	3	Oak		
	Juniperus conferta	3	Oleander	Oleander nerium	2
	Juniperus rigida	2	Olive		
	Juniperus sabina fastigiat	a 2	Orange (sour)	Citrus aurantium	3
	15			16	

Common Name*	Scientific Name	HORMODIN No.	Common Name*	Scientific Name	HORMODIN No.
Orixa	Orixa sp	1	Sage	Salvia sp	1
Osage Orange	Maclura sp	1	Sequoia (Giant)	Sequoia giantia	2
Osmanthus	Osmanthus sp	2	Silverbell	Halesia sp	2
Pachysandra	Pachysandra terminalis .	2 or 3	Snapdragon	Antirrhinum sp	1
Pea Shrub	Caragana sp	1	Snowbell	Styrax sp	3
Pear (stock)	Pyrus serotina	1	Snowberry	Symphoricarpus sp	1
Pecan	Pecan	3	Sourwood	Oxydendrum sp	3
Penstemon	Penstemon sp	1	Speedwell	Veronica sp	1
Periwinkle	Vinca sp	2		Spirea sp	
Petunia	Petunia sp		Springscent	Fothergilla major	2
Philodendron	Philodendron sp	1	Spruce (Blue)	Picea pungens	2
Phlox	Phlox sp		Spruce (Norway) vars	Picea excelsa vars. (NovFe	eb.) 1
Photinia	Photinia sp	1	Stevia	Stevia sp	1
Pine	Pinus sp		Stewartia	Stewartia pentagyna	1
Poinsettia	Euphorbia vars	1	St. Johnswort	Hypericum sp	1
Poplar	Populus sp		Sweetleaf		
Pricklypear Cactus			Taxus (See Yew)		
	Ligustrum avalifolium			Poncirus sp	
	Rubus sp		Trumpet creeper		
Retinospora vars	Chamaecyparis obtusa va			Liriodendron sp	
	Chamaecyparis ptsitera va			Sciadopitys verticillata	
Rhododendron vars	Rhododendron (hybrids)			Verbena sp	
	Rhododendron catawbien			Viburnum sp	
	Rhododendron wilsonii .		Waxmyrtle		
Rose	Rosa vars		Weigelia	Diervilla sp	1
Russian olive	Elaeagnus sp	3	Willow	Salix sp	1
	17			18	

 Common Name\*
 Scientific Name
 HORMODIN No.

 Wintergreen
 Gautheria sp.
 2

 Wisteria
 Wisteria sp.
 2

 Witch Hazel
 Hamamelis sp.
 2

 Yellowyood
 Cladrastis sp.
 2

 Yew
 Taxus baccata vars.
 3

 Taxus cuspidata vars.
 3

 Taxus media hatfieldii
 3

 Taxus media hatfieldii
 3

 Zelkova
 Zelkova sp.
 2

\*Standardized Plant Names.

OHP, Inc. PO Box 230 Mainland, PA 19451 Phone: (800) 356-4647

> ESL060807 REV020210

[Note: This page was previously reviewed and approved on EC Geiger Hormodin 1 EPA Stamped Label 08/23/2004]

### [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.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available.

[Homeowner (Nonagricultural) use may delete WPS.]