

A ROOT INDUCING SUBSTANCE

SPECIMEN LABEL

Simplifies Rooting of Cuttings

ACTIVE INGREDIENT:

Indole-3-butyric Acid	00.1%
OTHER INGREDIENTS:	99.9%
TOTAL:	100.0%

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.

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

EPA Est. indicated by first and second letters of the lot number on this package.

(PP) = 69697 - CAN - 001

EPA Reg. No. 59807-4

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%
Other Ingredients	99.9%	99.7%	99.2%
EPA Reg. No.	59807-4	59807-2	59807-3

PRECAUTIONARY STATEMENTS KEEP OUT OF REACH OF CHILDREN Hazards to Humans and Domestic 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:	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 person.

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.

Net Contents: 1 LB (454 grams)

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. 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

HORMODIN 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:

- 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.

The following plants have been successfully rooted with $\ensuremath{\textbf{HORMODIN}}.$

For species not mentioned in the following list it is suggested that **HORMODIN 1** or **2** be used.

that HORMODIN 1 or 2 be used.			
Common Name*	Species = sp. Varieties = Scientific Name	HORMODIN No.	
African Violet	Saintpaulia sp	1	
	Ageratum sp		
• •	Malus sp		
	Thuja ellwangeriana aurea nana		
	Thuja occidentalis vars		
Arbutus (Irailing)	Epigaea repens	3	
	R. arborescens (June-Aug.)		
	R. arborescens grandiflora		
(R. calendulaceum		
	R. canadense	3	
	R. canescens	3	
	R. Christmas Cheer		
	R. colletianum		
	R. Coral Bell		
	R. dauricum (June-July)		
	R. kosterianuma Miss Louisa Hunnewe		
	R. kurume vars. (June-July)		
	R. mollis		
	R. mucronatum	1	
	R. obtusa hinodigiri	1	
	R. obtusa kaempieri		
	R. Pink Pearl		
	R. roseum		
	R. schlippenbachii		
	R. Snow		
	R. viscosum		
	R. yedoense poukhanense		
Barberry	Berberis sp		
Bayberry	<i>Myrica</i> sp	1	
, ,	Callicarpa sp		
	Kolkwitzia amabilis (tips) (June-July)		
	Fagus sp. (Aug.)		
	Begonia sp		
	Celastrus sp		
Blackberry	Rubus sp	1	
Bluebeard	Caryopteris sp	1	
3	Vaccinium corymbosum vars		
3 - 3	Bougainvillea sp		
(Snake Plant)	Sanserveria		
	Buxus sp		
Broom	Cytisus sp		
Camelia	Camellia sp		
Candytuft	Iberis sp		
Carnation	Dianthus vars.		
Catalpa	Catalpa sp	3	
Chamaecyparis	Chamaecyparis obtusa vars		
(Retinospora) vars	Chamaecyparis ptsifera vars		
Chaste Tree	<i>Vitex</i> sp		
Chestnut	Castanea sp		
	Aronia sp		
Cinquefoil	Potentilla sp		
Clematis	Clematis sp		
Clerodendron	Clerodendron		
Clockvine	Thunbergia sp		
Coleus	Coleus blumei		
Cotoneaster	Cotoneaster horizontalis		
Crapa Myrtla	Malus sp		
. ,	Crassula rubicunda		
	Parthenocissus sp		

Common Name*	Scientific Name	HORMODIN No.
Croton	Codiaeum	1
Cryptomeria	Cryptomeria sp	3
	Ribes tenuitorum	
Dahlia	Dahlia vars	1
	Daphne sp	
	Deutzia megnifica	
	Rubus sp.	
,	Cornus florida (July)	
	Davidia sp	
	Pseudotsuga sp.	
0	Dracaena sarderiana	
	Aristolochia sp	
	Sambucus sp	
	Eleutherococcus sp	
	Ulmus sp. (June-July)	
	Escallonia sp	
	Euonymus sp	
	Thujopsis sp	
	Abies sp	
	Pyracantha sp	
	Prunus sp. and vars.	
	Chaenomeles sp	
	Fontanesia sp	
· ·	Forsythhia sp. and vars.	
	Gordonia alatamaha	
<u> </u>	Chionanthus sp	
	Fuchsia	
	Gardenia florida	,
	Geranium sp	
	Teucrium sp	
	Abelia grandiflora rosea alba (tips best)	
	Laburnum	
	Vitis sp. and vars.	
	Crateagus sp	
HazeInut	Corylus sp. (June)	1 or 2
	Erica carnea vars	
	Caluna vulgaris vars	
	Tsuga sp. and vars. (SeptJune)	
	Hibiscus (tropical)	
	Hibiscus syriacus vars. (leafy and dormar	
Holly (American)	llex opaca	
	Ilex pernyi	
Holly (Chinese)	Ilex cornuta	3
	llex aquifolium	
Holly (Japanese)	llex crenata vars	2
Honeysuckle	Lonicera sp	1
Hydrangea	Hydrangea	1
Japanese Andromeda	Pieris japonica	1
	Sciadopitys verticillata	
Jasmine		
Jetbead	Rhodotypos sp	1
Juniper vars		
·	Juniperus chinensis japonica	
	Juniperus chinensis pfitzeriana	
	Juniperus columnis hillii (dwarf)	
	Juniperus communis vars	
	Juniperus conferta	
	Juniperus rigida	
	Juniperus sabina fastigiata	
	Juniperus squamata fargesii	
	Juniperus virginiana vars	
Kerria	Kerria sp	
	Polygonum sp.	
	Laburnocytisus sp	
	Lantana sp	
	Kalmia sp	
	Lavandula sp	
	Leucothoe sp	
	Syringa vulgaris vars. (April 15-May 25)	
	Lilium (scales)	
	<i>Tilia</i> sp	
EMIGOR	····α ορ	1

Locust Robinia sp. 3 Magnolia Magnolia sp. 2 or 3 Maidenhair Tree Ginko biloba 2 Manzanita Arctostaphylos sp. 3 Maple (Japanese) vars. Acer japonicum palmatum vars. 3 Matrimony Vine Lycium halimifolium 3 Matrimony Vine Lycium halimifolium 3 Melastoma 1 1 Mock Orange Philadelphus sp. 1 Mulberry Morus alba 1 Ninepark Physocarpus sp. 3 Oak Quercus sp. 3 Oleander Oleander nerium 2 Olive Olea sp. 3 Orange (sour) Citrus aurantium 3 Orixa Or ixa sp. 1 Osage Orange Maclura sp. 1 Osmathus sp. 2 2 Pachysandra Pachysandra terminalis 2 or 3 Pea Shrub Caragana sp. 1 Pear (stock) Pyrus serotina 1	Common Name*	Scientific Name	HORMODIN No.
Maidenhair Tree Ginko biloba 2 Manzanita Arctostaphylos sp. 3 Maple (Japanese) vars. Acer japonicum palmatum vars. 3 Matrimony Vine Lycium halimifolium 3 Melastoma 1 Mock Orange Philadelphus sp. 1 Mulberry Morus alba 1 Ninepark Physocarpus sp. 3 Oak Quercus sp. 3 Oleander Oleander nerium 2 Olive Olea sp. 3 Orange (sour) Citrus aurantium 3 Orixa Orixa sp. 1 Osage Orange Maclura sp. 1 Osage Orange Maclura sp. 2 Osachitus Osmanthus sp. 2 Pachysandra Pachysandra terminalis 2 or 3 Pea Shrub Caragana sp. 1 Pear (stock) Pyrus serotina 1 Pecan 3 Penstemon 1 Periwinkle Vinca sp. 1 <	Locust	Robinia sp	3
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Pea Shrub Caragana sp. 1 Pear (stock) Pyrus serotina 1 Pecan Pecan 3 Penstemon Penstemon sp. 1 Periwinkle Vinca sp. 2 Petunia Petunia sp. 1 Philodendron Philodendron sp. 1 Phlox Phlox sp. 1 Photinia Photinia sp. 1 Pine Pinus sp. 2 or 3 Poinsettia Euphorbia vars. 1 Poplar Populus sp. 1 Pricklypear Cactus Opuntia sp. 1 Privet Ligustrum avalifolium 3 Raspberry Rubus sp. 1 Rhododendron (hybrids) 3 Rhododendron catawbiense hybrids 3 Rhododendron wilsonii 3	Pachysandra	Pachysandra terminalis	2 or 3
Pear (stock) Pyrus serotina 1 Pecan 3 Penstemon Penstemon sp. 1 Periwinkle Vinca sp. 2 Petunia Petunia sp. 1 Philodendron Philodendron sp. 1 Phlox Phlox sp. 1 Photinia Photinia sp. 1 Pine Pinus sp. 2 or 3 Poinsettia Euphorbia vars. 1 Poplar Populus sp. 1 Pricklypear Cactus Opuntia sp. 1 Privet Ligustrum avalifolium 3 Raspberry Rubus sp. 1 Rhododendron (hybrids) 3 Rhododendron catawbiense hybrids 3 Rhododendron wilsonii 3			
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Petunia Petunia sp. 1 Philodendron Philodendron sp. 1 Phlox Phlox sp. 1 Photinia Photinia sp. 1 Pine Pinus sp. 2 or 3 Poinsettia Euphorbia vars. 1 Poplar Populus sp. 1 Pricklypear Cactus Opuntia sp. 1 Privet Ligustrum avalifolium 3 Raspberry Rubus sp. 1 Rhododendron (hybrids) 3 Rhododendron catawbiense hybrids 3 Rhododendron wilsonii 3	Penstemon	Penstemon sp	1
Petunia Petunia sp. 1 Philodendron Philodendron sp. 1 Phlox Phlox sp. 1 Photinia Photinia sp. 1 Pine Pinus sp. 2 or 3 Poinsettia Euphorbia vars. 1 Poplar Populus sp. 1 Pricklypear Cactus Opuntia sp. 1 Privet Ligustrum avalifolium 3 Raspberry Rubus sp. 1 Rhododendron (hybrids) 3 Rhododendron catawbiense hybrids 3 Rhododendron wilsonii 3	Periwinkle	Vinca sp	2
Phlox Phlox sp. 1 Photinia Photinia sp. 1 Pine Pinus sp. 2 or 3 Poinsettia Euphorbia vars. 1 Poplar Populus sp. 1 Pricklypear Cactus Opuntia sp. 1 Privet Ligustrum avalifolium 3 Raspberry Rubus sp. 1 Rhododendron vars. Rhododendron (hybrids) 3 Rhododendron catawbiense hybrids 3 Rhododendron wilsonii 3		•	
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Photinia Photinia sp. 1 Pine Pinus sp. 2 or 3 Poinsettia Euphorbia vars. 1 Poplar Populus sp. 1 Pricklypear Cactus Opuntia sp. 1 Privet Ligustrum avalifolium 3 Raspberry Rubus sp. 1 Rhododendron vars. Rhododendron (hybrids) 3 Rhododendron catawbiense hybrids 3 Rhododendron wilsonii 3			
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Pricklypear Cactus Opuntia sp. 1 Privet Ligustrum avalifolium 3 Raspberry Rubus sp. 1 Rhododendron vars. Rhododendron (hybrids) 3 Rhododendron catawbiense hybrids 3 Rhododendron wilsonii 3		•	
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Raspberry Rubus sp. 1 Rhododendron vars. Rhododendron (hybrids) 3 Rhododendron catawbiense hybrids 3 Rhododendron wilsonii 3			
Rhododendron vars. Rhododendron (hybrids) 3 Rhododendron catawbiense hybrids 3 Rhododendron wilsonii 3		9	
Rhododendron catawbiense hybrids			
Rhododendron wilsonii			
Rose	Rose		

Common Name*	Scientific Name	HORMODIN No.
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
	Symphoricarpos sp	
Sourwood	Oxydendrum sp	3
Speedwell	Veronica sp	1
	Spirea sp	
Springscent (Witchalder)	Fothergilla major	2
	Picea pungens	
	Picea excelsa vars. (NovFeb.)	
Stevia	Stevia sp	1
Stewartia	Stewartia pentagyna	1
St. John's Wort	Hypericum sp	1
Sweetleaf	Symplocos	1
Trifoliate-Orange	Poncirus sp	2
Trumpet creeper	Campsis sp	1
Tuliptree	Liriodendron sp	3
Verbena	Verbena sp	1
Viburnum	Viburnum sp	1
Waxmyrtle	<i>Myrica</i> sp	1
Weigela	Diervilla sp	1
Willow	<i>Salix</i> sp	1
Wintergreen	Gaultheria sp	2
Wisteria	Wisteria sp	2
Witch Hazel	Hamamelis sp	2
Yellowwood	Cladrastis sp	2
Yew		
	Taxus cuspidata vars	3
	Taxus media hatfieldii	3
	Taxus media hicksii	3
Zelkova	Zelkova sp	2

^{*} Standardized Plant Names

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.

Produced for OHP, Inc. P. O. Box 230 Mainland, PA 19451 (800) 356-4647

ESL022210 REV102610 OHP983111

NOTICE 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.

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