

HORMODIN 1 – MASTER LABEL -- (CONTAINER LABEL)
With "0" hour REI interval as per amendment resubmitted June 10, 1998

Hormodin® 1

A ROOT INDUCING SUBSTANCE

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 folder.

Lot

Easy to Use

Just Dip and Plant

Clean

Net Wt. 1 LB

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

Made in Canada

Simplifies Rooting of
Cuttings

NET Wt. 1 LB

(Alt. Sizes = 4 oz, 8 oz, 1 & 50 LB)

Hormodin® 1

A ROOT INDUCING SUBSTANCE

Active Ingredient:

Indole-3-butyric Acid 0.1%

Inert Ingredients: 99.9%

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. 69916-1

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.

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.
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. 69916-1

PM 91
69916-1
10-16-98
1043

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 DISPOSAL (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 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 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, after 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.

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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: Shrubs = sp. Voleucites = vars

Common Name	Scientific Name	HORMODIN No.
Acanthopanax	Acanthopanax sp.	1
African Violet	Streptocarpus sp.	1 or 2
Agave	Agave sp.	1
Andromeda	Andromeda japonica	1
Apple	Malus sp.	2 or 3
Arbor-Vitae (Thuja) vars	Thuja chinensis, Thuja aurea, Thuja	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 grandiflora	3
	Azalea ciliolata	3
	Azalea canadense	3
	Azalea canescens	3
	Azalea Christmas Cheer	1
	Azalea conchocarpa	3
	Azalea Coral Bell	3
	Azalea daurica (June-July)	2
	Azalea gardenensis (hybrids)	2
	Azalea Kosteriana Miss Louise Homewell	3
	Azalea kurume vars. (June-July)	1
	Azalea mollis	2
	Azalea mucronatum	1
	Azalea obtusa hindsii	1
	Azalea obtusa kalmiana	1
	Azalea Pink Pearl	1
	Azalea roseum	3
	Azalea schipperhaecki	3
	Azalea Snow	3
	Azalea vaseyi	1
	Azalea viscosum	2
	Azalea yedoensis poukhanense	1
Barberry	Berberis sp.	1
Bayberry	Myrica sp.	1
Beadly Bery	Calluna sp.	1
Bearly Bush	Kalmia latifolia (tips) (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	Caryopteris sp.	1
Blueberry	Vaccinium corymbosum vars.	1 or 2
Bougainvillea	Bougainvillea sp.	1
Bowling Kemp (Snake Plant)	Sansevieria	1
Burweed	Burweed sp.	3
Broom	Cytisus sp.	1 or 2
Buzi-Abulus	Abutilon gratiflorum rosea alba (tips best)	1
Butterflybush	Buddleia sp.	1
Camellia	Camellia sp.	3
Candyflute	Iberis sp.	1
Cannition	Quercus sp.	3
Catalpa	Catalpa sp.	3
Chaste Tree	Virex sp.	2
Clematis	Clematis sp.	2
Cleome	Aronia sp.	2 or 3
Clockvine	Thunbergia sp.	1
Coleus	Coleus sp.	1
Colonyaster	Chionodoxa montana	3
Crochapple	Malus sp.	2 or 3
Crape Myrtle	Lagerströmia indica	1
Crossbush	Crataegus umbellata	1

Commercial Label
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Common Name	Scientific Name	HORMODIN No.
Mulcaevia	Actinostaphylos sp.	3
Mullein (Japanese) vars.	Acer japonicum palmatum vars.	3
Mulberry	Morus alba	1
Murderer	Physocarpus sp.	3
Ninebark	Quercus sp.	3
Oak	Quercus sp.	3
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	Carya sp.	3
Penstemon	Penstemon sp.	3
Periwinkle	Vincetoxicum sp.	1
Petaluma	Petaluma sp.	2
Philadelphus	Philadelphus sp.	1
Philox	Philox sp.	1
Pink	Pinus sp.	1
Poplar	Populus sp.	1
Pricklypear Cactus	Opuntia sp.	1
Privet	Ligustrum ovalifolium	3
Rasperry	Rubus sp.	1
Retinospora vars.	Chamaecyparis obtusa vars.	3
	Chamaecyparis pisifera vars.	3
	Rhododendron (hybrids)	3
	Rhododendron californense hybrids	3
	Rhododendron wilsonii	3
Rose	Rosa vars.	3
Russian olive	Elaeagnus sp.	3
Sage	Salvia sp.	1
Sequoia (Giant)	Sequoia gigantea	2
Silverbelt	Halesia sp.	1
Skunkdog	Aster sp.	1
Snowbell	Syringa sp.	1
Snowberry	Symphoricarpos sp.	3
Sourwood	Oxydendrum sp.	3
Spearswell	Veronica sp.	1
Sprea	Sprea sp.	1
Springscent	Forsythia major	2
Spruce (Blue)	Picea pungens	1
Spruce (Norway) vars	Picea excelsa vars. (Nov.-Feb.)	1
Steva	Steva sp.	1
Stewartia	Stewartia pentagyna	1
St. Johnswort	Hypericum sp.	1
Sweetgum	Sweetgum	1
Taxus (See Yew)	Taxus	1
Tetralite Orange	Poncirus sp.	2
Trumpet Creeper	Trumpet creeper	1
Tulip	Tulip	3
Umbrella Pine	Umbrella Pine	1
Verbena	Verbena sp.	1
Viburnum	Viburnum sp.	1
Waxmyrtle	Myrica sp.	1
Wegelia	Dierfeldia sp.	1
Willow	Salix sp.	2
Wintergreen	Galium sp.	2
Wisteria	Wisteria sp.	2
Yucca	Yucca sp.	2
Yew	Taxus cuspidata vars.	3
	Taxus media hybrid	3
	Taxus media beckii	3
Zelkova	Zelkova sp.	2

Stuhldreier, F. H. H. H. H.

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