

AUG 20 1993

James Yowell
Griffin Corporation
P.O. Box 1847
Valdosta, GA 31603

Dear Mr. Yowell:

Subject: Additional Ornamental Species
Spin Out Powder
EPA Registration No. 1812-347
Your Submission Dated August 3, 1993

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

- Modify the Environmental Hazards Statement to read as follows:

Environmental Hazards

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the Environmental Protection Agency.

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

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Cynthia Giles-Parker
Product Manger (22)
Fungicide Herbicide Branch
Registration Division (H7505C)

Enclosure

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Jackal Copy

Spin Out Powder

ACCEPTED
with COMMENTS
in EPA Letter Dated:

WETTABLE POWDER

AUG 20 1993

ROOT CONTROL ADDITIVE FOR
FIBER NURSERY CONTAINERS

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

1812-347

Active Ingredient		
Copper Hydroxide		88.0%
Inert Ingredients		12.0%
Total		100.0%

(Metallic Copper Equivalent 57.3%)

KEEP OUT OF REACH OF CHILDREN

DANGER - PELIGRO

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Hold eyelids open and flush with water for 15 minutes. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF SWALLOWED: Drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate use of gastric lavage.

PRECAUCION AL USARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

BEST AVAILABLE COPY

Griffin Corporation
Valdosta, GA 31601

EPA Reg. No. 1812-347
EPA Est. No. 8901-TX-1

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER - PELIGRO

Corrosive. Causes irreversible eye damage. Wear goggles, face shield or safety glasses. Harmful if swallowed, absorbed through the skin or inhaled. May cause skin sensitization reactions in certain individuals. Avoid contact with skin eyes, or clothing. Avoid breathing dust. Protective clothing, including goggles, should be worn. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not allow rinsate from cleaning of equipment or disposed material to enter surface or ground water.

STORAGE AND DISPOSAL

Store in a cool, dry place.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

BEST AVAILABLE COPY

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

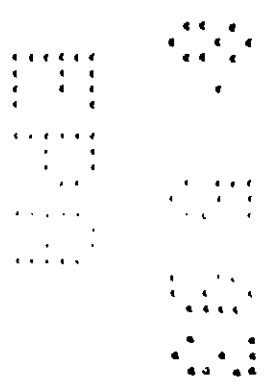
APPLICATION DIRECTIONS

The addition of Spin Out Powder to fiber pot pulp prior to molding will extend container life and control spiral root growth of container-grown plants. Add Spin Out Powder to papier-mâché pulp at the rate of 1-2% of dry fiber weight. Spin Out Powder should be mixed evenly throughout the pulp before molding.

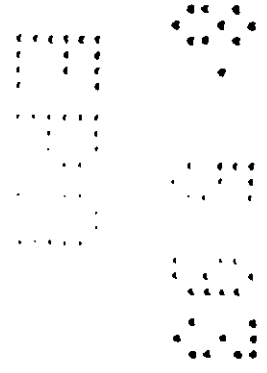
Spin Out Powder has been extensively researched; however, testing has not been conducted on all species or cultivars, or under all growing conditions. In some instances, performance characteristics may vary.

The species listed below have been tested under actual growing conditions.

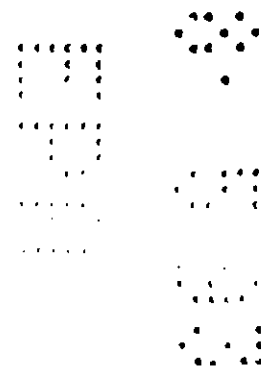
<u>Scientific Name</u>	<u>Common Name</u>
Abies amabilis	Pacific silver fir
Acer palmatum	Japanese maple
Acer platanoides	Norway maple
Acer rubrum	Red maple
Acer saccharinum	Silver maple
Acer saccharum	Sugar maple
Acorus gramineus	Sweet-flag
Ageratum sp.	Floss flower
Amelanchier canadensis	Shadblow
Aronia arbutifolia	Chokeberry
Artemisia ludoviciana	Dusty miller
Asparagus setaceus	Asparagus fern
Astilbe x arendsii	False spirea
Begonia	Begonia



Berberis thunbergii	Barberry
Betula nigra	River birch
Browallia	Sapphire flower
Buxus microphylla kor-ana	Korean boxwood
Buxus microphylla var. japonica	Japanese boxwood
Buxus sempervirens	Boxwood
Calluna vulgaris	Heather
Camellia japonica	Common camellia
Camellia reticulata	Reticulate camellia
Camellia sasanqua	Sasanqua camellia
Campanula carpatica	Bellflower
Carex morrowi variegata	Sedge
Carya illinoensis	Pecan
Ceratostigma plumbaginoides	Blue ceratostigma
Cercis canadensis	Red bud
Cercis reniformis	Texas redbud
Chionanthus retusus	Chinese fringe tree
Chlorophytum comosum	Spider plant
Citrus sp.	Citrus
Clematis sp.	Clematis
Coleus x hybridus	Coleus
Coreopsis verticillata	Threadleaf coreopsis
Cornus florida	Flowering dogwood



Cornus kousa	Chinese dogwood
Cortaderia selloana	Pampas grass
Cotoneaster apiculata	Willowleaf cotoneaster
Cotoneaster divaricatus	Spreading cotoneaster
Cotoneaster salicifolius	Willowleaf cotoneaster
Cupressocyparis leylandi	Leyland cypress
Dendranthema hybrids	Mums
(Dianthus barbatus	Sweet William
(Dieffenbachia sp.	Dumb cane
Diospyros virginiana	Common persimmon
Euonymus alatus	Winged euonymus
Euonymus fortunei	Wintercreeper euonymus
Festuca cinerea	Ornamental fescue
Forsythia intermedia	Forsythia
(Fothergilla gardenii	Fothergilla
(Fraxinus americana	White ash
Fraxinus pennsylvanica	Green ash
Fuchsia hybrids	Fuchsia
Ginkgo biloba	Ginkgo
Gladiolus triancanthos var. inermis	Shademaster honeylucst
Gypsophila paniculata	Baby's breath
Hamamelis intermedia	Witch hazel
Hemerocallis hybrids	Daylily



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Heuchera hybrids

Coral bells

Hibiscus rosa-sinensis

Tropical hibiscus

Hibiscus syriacus

Rose-of-Sharon

Hosta lancifolia

Variegated hosta

Hydrangea paniculata

Panicle hydrangea

Hypericum patulum

St. Johnswort

Iberis sempervirens

Candytuff

(Ilex coccinea

Dahoon holly

(Ilex glabra

Compact inkberry

Ilex hybrids

'Savannah' & 'East Palatka'

Illicium floridanum

Red anise

Impatiens hybrids

Sultana

Juniperus horizontalis cultivars

Creeping juniper

Juglans nigra

Black walnut

(Juniperus chinensis

Sargent's juniper

(Juniperus sabina

Savin juniper

Juniperus virginiana

Eastern red cedar

Kerria japonica

Japanese kerria

Koeleria glauca

Crested hair grass

Lagerstroemia indica

Crape myrtle

Leucothoe axillaris

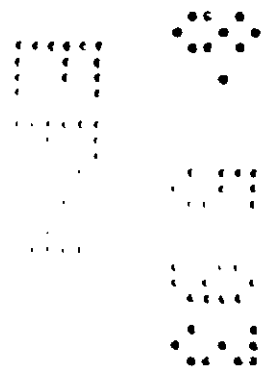
Fetterbush

Liatris spicata

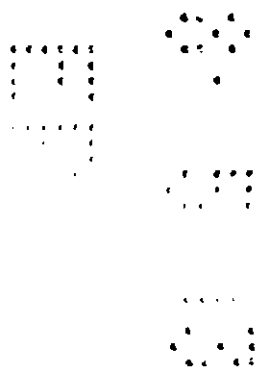
Gay feather

Ligustrum japonicum

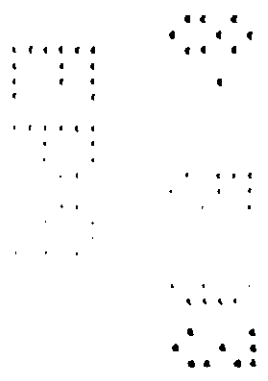
Japanese privet



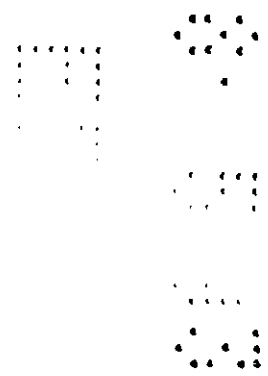
Lilium sp.	Lily
Liquidambar styraciflua	American sweetgum
Liriodendron tulipifera	Tulip tree
Liriope muscari	Monkey grass
Liriope spicata	Creeping lily turf
Lonicera japonica	Japanese honeysuckle
Lythrum sp.	Purple Loosestrife
Magnolia grandiflora	Southern magnolia
Magnolia liliiflora	Star magnolia
Magnolia soulagiana	Oriental magnolia
Malus floribunda	Showy crabapple
Myrica pensylvanica	Bayberry
Nandina domestica	Heavenly bamboo
Nyssa sylvatica	Black tupelo
Ophiopogon japonicus	Monnograss
Oxydendron arboreum	Sourwood
Paeonia japonica	Peony
Parkinsonia aculeata	Jerusalem thorn
Pelagonium x domesticum	Geranium
Pennisetum alopecuroides	Fountain grass
Petunia hybrida	Petunia hybrids
Phlox sp.	Phlox hybrids
Photinia x fraseri	Red tip photinia



Photinia serrulata	Chinese photinia
Picea glauca	White spruce
Picea sitchensis	Sitka spruce
Pieris japonica	Lilly-of-the-valley bush
Pinus contorta	Lodgepole pine
Pinus echinata	Shortleaf pine
Pinus elliotti	Slash pine
Pinus monticola	Western white pine
Pinus palustris	Longleaf pine
Pinus ponderosa	Ponderosa pine
Pinus strobus	Eastern white pine
Pinus taeda	Loblolly pine
Pinus thunbergiana	Japanese black pine
Pistacia chinensis	Chinese pistachio
Potentilla fructosa	Shrubby cinquefoil
Prunus cistena	Purple-leaf sand cherry
Prunus laurocerasus	Cherry laurel
Prunus serrulata	Japanese flowering cherry
Prunus subhirtella	Higan cherry
Pseudotsuga menziesii var. glauca	Douglas fir
Pyracantha angustifolia	Firethorn
Pyrus calleryana	Bradford pear
Quercus acutissima	Sawtooth oak

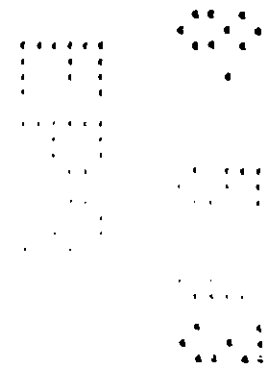


Quercus alba	White oak
Quercus falcata	Southern red oak
Quercus laurifolia	Laurel oak
Quercus palustris	Pin oak
Quercus prinus	Chestnut oak
Quercus shumardii	Shumard oak
Quercus virginiana	Live oak
(Quercua rubra	Northern red oak
(Radermachera sinica	China Doll
Rhamnus frangula	Tallhedge alder buckthorn
Rhododendron catawbiense	Catawba rhododendron
Rhododendron sp.	Azalea hybrids
Rhus aromatica	Sumac ✓
Rosa hybrids	Rose
(Salix babylonia	Weeping willow
(Salix melanostachys	Willow
Sapium sebiferum	Chinese tallow
Sassafras albidium	Sassafras
Schefflera arboricola	Schefflera
Spiraea japonica	Spirea
Spiraea nipponica	Snowmound spirea
Spiraea x bumalda	'Limemound' spirea
Swietenia mahagoni	West Indies mahogany



Syringa vulgaris	Lilac
Tabebuia impetiginosa	Pink trumpet tree
Tagetes sp.	Marigold hybrids
Taxodium distichum	Bald cypress
Taxus x media	Anglojap yew
Thuja occidentalis	American arborvitae
Thuja plicata	Western red cedar
Trachycarpus fortunei	Windmill palm
Tsuga heterophylla	Western hemlock
Ulmus parvifolia	Chinese elm
Vaccinium sp.	Blueberry
Viburnum dentatum	Arrowwood viburnum
Viburnum lantana	Wayfaringtree viburnum
Viburnum macrocephalum	Chinese snowball
Viburnum opulus	European cranberry-bush
Viburnum plicatum var. tomentosum	Double file viburnum
Viburnum trilobum	Compact cranberrybush viburnum
Viburnum x judii	Judd virburnum
Viburnum x rhytidophylloides	Viburnum 'Willowwood'
Viola wittrockiana	Pansy hybrids
Vitex agnus-castus	Chaste-tree
Weigela florida	Pink weigelia
Wisteria floribunda	Japanese wisteria

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Yucca filamentosa

Yucca

NOTICE OF WARRANTY

GRIFFIN warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of GRIFFIN. In no case shall GRIFFIN be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. GRIFFIN MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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