

Juchit

MAY 6 1993

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

Dear Mr. Yowell:

Subject: Additional Ornamental Species
Spin Out
EPA Registration No. 1812-346
Your Submission Dated April 26, 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:

- a. In the ingredient declaration align the decimal points.
- b. Update the Environmental Hazards Statement to include the following:

For terrestrial uses, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment washwaters.

Refer to PR Notice 93-3.

c. For the new ornamentals also specify their Common Name. The names in parenthesis e.g. 'Aphrodite', 'Jane', 'Ann', etc. do not appear to Common Names for these species.

d. Place "Calluna vulgaris" in the column under the heading Scientific Name.

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

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

Sincerely yours,



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

Enclosure

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30413

Spin Out™

LIQUID FLOWABLE

ROOT CONTROL COATING FOR
CONTAINER-GROWN PLANTS

Active Ingredient

Copper Hydroxide	7.1%
Inert Ingredients	92.9%
Total	100.0%

(Metallic Copper Equivalent 4.6%)

**KEEP OUT OF REACH OF CHILDREN
CAUTION
STATEMENT OF PRACTICAL TREATMENT**

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

IF ON SKIN: Wash with plenty of soap and 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.

Griffin Corporation
Valdosta, GA 31601

EPA Reg. No. 1812-346
EPA Est. No. 8901-TX-1

ACCEPTED
with COMMENTS
in EPA Letter Dated:

MAY 6 1993

NET CONTENTS _____ gallons

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

1812-346

BEST AVAILABLE COPY

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Harmful if absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. 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 contaminate water when disposing of equipment washwaters.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Store in a cool, dry place.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

OR

Empty, unrinsed container can be used as a nursery growing container. Allow Spin-Out coating to dry on container walls and punch 3-5 holes in container bottom for use as a pot.

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 through any type of irrigation system.

GENERAL INFORMATION

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Spin Out is a plant growth regulator for use on plastic nursery containers as a root pruning agent to control root spiraling and promote the development of a fibrous root system. Spin Out can be used on container-grown woody ornamental and herbaceous plant species and non-bearing fruit and nut crops. Use Spin Out at any stage of plant development from seedlings to large container-grown trees. Do not apply Spin Out directly on plants or soil.

APPLICATION DIRECTIONS

Nursery containers should be clean and dry before applying Spin Out. Used containers should be free of any loose soil. Stir Spin Out well before use and DO NOT dilute. Apply Spin Out to the inner surfaces of plastic containers using conventional spray paint equipment. Follow all directions and precautions for the specific sprayer being used. Spin Out can also be applied using a brush or sponge. Spin Out should be applied evenly to the entire inner surface of the container.

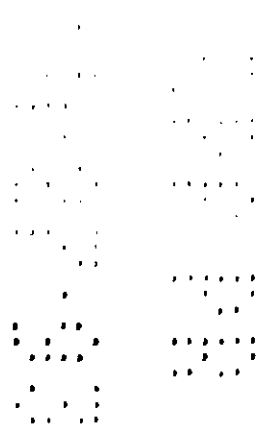
Thorough coverage with one application of Spin Out is sufficient for root control. Allow Spin Out to dry on containers for 30-60 minutes under good drying conditions before stacking or planting. Spin Out is thoroughly dry when it changes from dark to a light gray color. When restacking, do not push containers tightly together to prevent scratching the Spin Out coating. Treated containers can be stored for up to 1 year before use. Use water to clean up equipment after using Spin Out. Refer to the sprayer equipment owner's manual for specific instructions on equipment clean up.

Spin Out 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.

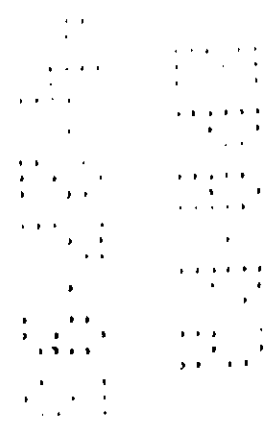
The species listed below have been tested under actual growing conditions.

<u>Scientific Name</u>	<u>Common Name</u>
Abies amabilis	Pacific silver fir
Acer palmatum	Maple/japanese
Acer platanoides	Norway maple
Acer rubrum	Maple/red
Acer saccharinum	Silver maple
Acer saccharum	Sugar maple
Acorus gramineus	'VARIEGATUS'
Ageratum sp.	Floss flower

Amelanchier canadensis	Shadblow
Aronia arbutifolia	Chokeberry
Artemisia ludoviciana	'SILVER KING'
Astilbe x arendsii	False spirea
Begonia sp.	Begonia
Berberis thunbergii	Barberry
Betula nigra	River birch
Browallia	Sapphire flower
Buxus microphylla	
Buxus microphylla koreana	Korean boxwood
Buxus microphylla var. japonica	Japanese boxwood
Buxus sempervirens	'VARDAR VALLEY' Calluna vulgaris
Campanula carpat.ca	Bellflower
Carex morrowi variegata	
Carya illinoensis	Pecan
Ceratostigma plumbaginoides	
Cercis canadensis	Red bud
Chionanthus retusus	
Chlorophytum comosum	Spider plant
Chrysanthemum hybrids	Mums
Citrus sp.	Citrus
Clematis sp.	Clematis
Coleus x hybridus	Coleus



Coreopsis verticillata	Threadleaf coreopsis
Cornus florida	Flowering dogwood
Cornus kousa	
Cortaderia selloana	
Cotoneaster apiculata	Willowleaf cotoneaster
Cotoneaster divaricatus	Spreading cotoneaster
Cotoneaster salicifolius	Willowleaf cotoneaster
X Cupressocyparis leylandi	Leyland cypress
Dianthus barbatus	Sweet William
Dieffenbachia sp.	Dumb cane
Diospyros virginiana	
Euonymus alata	Siebold
Euonymus fortunei	Bigleaf wintercreeper
Euonymus alatus	'COMPACTUS'
Euonymus fortunei	'COLORATUS'
Euonymus fortunei	'VARIEGATUS'
Festuca cinerea	'SOLLING'
Forsythia intermedia	Forsythia
Fothergilla gardenii	Fothergilla
Fraxinus americana	White ash
Fraxinus pennsylvanica	Green ash
Fuchsia hybrids	Fuchsia
Gingko biloba	



Gleditsia triacanthos var. inermis	Honey locust/shade master
Gypsophila paniculata	Baby's breath
Hamamelis intermedia	Witch hazel
Hemerocallis hybrids	Daylily
Heuchera hybrids	Coral bells
Hibiscus syriacus	'APHRODITE'
Hosta lancifolia	Variegated hosta
Hydrangea paniculata	'GRANDIFLORA'
Hydrangea paniculata	Panicle hydrangea
Hypericum x	HIDCOTE'
Iberis sempervirens	Candytuff
Ilex cassine	Dahoone
Ilex galbra	Compact inkberry
Ilex hybrids	Savannah and east palatka
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	'PLENIFLORA'
Koeleria glauca	
Lagerstroemia indica	Crape myrtle

<i>Leucothoe axillaris</i>	Fetterbush
<i>Liatris spicata</i>	Gay feather
<i>Ligustrum japonicum</i>	Japanese privet
<i>Lilium</i> sp.	Lily
<i>Liquidambar styracifolia</i>	American sweetgum
<i>Liriope muscari</i>	Monkey grass
<i>Liriope spicata</i>	Creeping lily turf
<i>Lonicera japonica</i>	Japanese honeysuckle
<i>Lythrum</i> sp.	Purple-loose-strife
<i>Magnolia grandiflora</i>	Southern magnolia
<i>Magnolia liliiflora</i>	'JANE'
<i>Magnolia liliiflora</i>	'ANN'
<i>Malus floribunda</i>	Showy crabapple
<i>Myrica pensylvanica</i>	Bayberry
<i>Nandina domestica</i>	
<i>Nyssa sylvatica</i>	
<i>Ophiopogon japonicus</i>	
<i>Paeonis japonica</i>	Peony
<i>Parkinsonia aculeata</i>	Jerusalem thorn
<i>Pelagonium x domesticum</i>	Geranium
<i>Pennisetum alopecuroides</i>	
<i>Petunia hybrida</i>	Petunia hybrids
<i>Phlox</i> sp.	Phlox hybrids



Photinia x fraseri	
Photinia serrulata	Red tip
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	Western/Ponderosa pine
Pinus strobus	Eastern white pine
Pinus taeda	Loblolly pine
Pinus thunbergiana	
Potentilla fructosa	Shrubby cinquefoil
Prunus cistena	Purple-leaf sand cherry
Prunus laurocerasus	'SCHIPKAENSIS'
Prunus serrulata 'Kwanzan'	Japanese flowering cherry
Prunus subhirtella	'AUTUMNALIS'
Pseudotsuga menziesii var. glauca	Douglas fir
Pyracantha angustifolia	Firethorn
Pyrus calleryana	Bradford pear
Quercua rubra	Northern red oak

<i>Quercus acutissima</i>	Sawtooth oak
<i>Quercus alba</i>	White oak
<i>Quercus falcata</i>	'PAGODIFOLIA'
<i>Quercus laurifolia</i>	Laurel oak
<i>Quercus palustris</i>	Pin oak
<i>Quercus prinus</i>	Chestnut oak
<i>Quercus shumardii</i>	Shumard oak
<i>Quercus virginiana</i>	Live oak
<i>Rhamnus frangula</i>	Tallhedge alder buckthorn
<i>Rhododendron catawbiense</i>	Catawba rhododendron
<i>Rhododendron sp.</i>	Azalea hybrids
<i>Rhus aromatica</i>	Sumac
<i>Rosa hybrids</i>	Rose
<i>Salix babylonia</i>	Weeping willow
<i>Salix melanostachys</i>	
<i>Spiraea japonica</i>	Spiraea
<i>Spiraea japonica</i>	'LITTLE PRINCESS'
<i>Spiraea nipponica</i>	Snowmound spiraea
<i>Spiraea x bumalda</i>	'Limemand' spiraea
<i>Swietenia mahagomi</i>	West Indies mahogany
<i>Syringa vulgaris</i>	'MICHAEL BUCHNER'
<i>Tabebuia impetiginosa</i>	Pink trumpet tree
<i>Tagetes sp.</i>	Marigold hybrids

Taxodium distichum	Bald cypress
Taxus x media	'DENSIFORMIS'
Taxus x media	'HICKSII'
Thuja occidentalis	White cedar
Thuja occidentalis	'PYRAMIDALIS'
Thuja occidentalis	'TECHNY'
Thuja plicata	Western red cedar
Trachycarpus fortunei	Windmill palm
Tsuga heterophylla	Western hemlock
Ulmus parvifolia	Chinese elm
Viburnum dentatum	Arrowwood viburnum
Viburnum lantanaphyllum	'MOHICAN'
Viburnum macrocephalum	Chinese snowball
Viburnum opulus	European cranberry-bush
Viburnum plicatum	Doublefile viburnum
Viburnum plicatum tomentosum	'MARIESII'
Viburnum trilobum	Compact cranberrybush viburnum
Viburnum x juddi	Judd viburnum
Viburnum x rhytidophylloides	Viburnum 'Willowwood'
Viola wittrockiana	Pansy hybrids
Vitex agnus-castus	
Weigela florida	Pink weigelia
Wisteria floribunda	'ROSEA'

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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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