



United States  
Environmental Protection Agency  
Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number  
243278

**Application for Pesticide - Section I**

1. Company/Product Number 1812-346	2. EPA Product Manager Ms. Cynthia Giles-Parker	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Spin Out	PM# 22	
5. Name and Address of Applicant (Include ZIP Code) Griffin Corporation PO Box 1847 Valdosta, GA 31603 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification to revise label.

**NOTIFICATION**

OCT 27 1996

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product		<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____	

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Tim McPherson	Title International Registration Specialist	Telephone No. (Include Area Code) (912) 242-8635
2. Signature 		6. Date Application Received (Stamped)
3. Title International Registration Specialist		
4. Typed Name Tim McPherson	5. Date October 11, 1996	

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October 11, 1996

**Spin Out®**  
Root Growth Regulator

g346a96a.lab

**LIQUID FLOWABLE**

**Root Control Coating**

Active Ingredient	
Copper Hydroxide	7.1%
Inert Ingredients	92.9%
TOTAL	100.0%

(Metallic Copper Equivalent 4.6%)

**NOTIFICATION**

301 2 6 1996

**PROTECT FROM FREEZING**

**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.

See Label for Additional Precautions and Directions for Use

Griffin Corporation  
Valdosta, GA 31601

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

NET CONTENTS \_\_\_\_\_ gallons

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

Precautionary Statements: Harmful if absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

<b>USER SAFETY RECOMMENDATIONS</b>
<p>Users should:</p> <ul style="list-style-type: none"> <li>- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.</li> <li>- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> </ul>

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and aquatic organisms. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

**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.

Do not apply this product through any type of irrigation system.

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### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for 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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Store in a cool, dry place. Store above 32°F and protect from freezing.

**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.

### GENERAL INFORMATION

Spin Out is a plant growth regulator for use on plastic or cellulose 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.

**NOTE:** Some containers, particularly bedding plant containers, may be treated with a slipping agent for easy unstacking. Slipping agents usually appear waxy and can prevent the adhesion of Spin Out. We do not recommend the application of Spin Out under these conditions.

### SPECIAL PRECAUTIONS

**NOTE:** This product may be reactive on masonry and metal surfaces such as galvanized roofing. Avoid contact with metal surfaces.

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**NOTE:** It must be determined in the selection process if proper application and molding equipment are available and if the waste associated with their use can be properly handled. Materials used in the construction of application and molding equipment are also important factors as this product may be reactive with soft metals such as aluminum and even some synthetic materials such as plastics, rubbers, etc. Therefore it is necessary when working with equipment containing these materials that they are thoroughly flushed with clean water after each day's use.

### 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 or cellulose containers using conventional spray paint equipment. Refer to the sprayer equipment owner's manual for specific instructions on equipment clean up. 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 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.

### PLANT RESPONSE

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. For a complete listing of tested plant species contact the Griffin Corporation Technical Services Group at (800) 237-1854.

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

Scientific Name	Common Name
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

<del>Astilbe x arendsii</del>	<del>False spirea</del>
<del>Begonia sp.</del>	<del>Begonia</del>
<del>Berberis thunbergii</del>	<del>Barberry</del>
<del>Betula nigra</del>	<del>River birch</del>
<del>Browallia</del>	<del>Sapphire flower</del>
<del>Buxus microphylla koreana</del>	<del>Korean boxwood</del>
<del>Buxus microphylla var. japonica</del>	<del>Japanese boxwood</del>
<del>Buxus sempervirens</del>	<del>Boxwood</del>
<del>Calluna vulgaris</del>	<del>Heather</del>
<del>Campanula carpatica</del>	<del>Bellflower</del>
<del>Carex morrowi variegata</del>	<del>Sedge</del>
<del>Carya illinoensis</del>	<del>Pecan</del>
<del>Ceratostigma plumbagineoides</del>	<del>Blue ceratostigma</del>
<del>Cercis canadensis</del>	<del>Red bud</del>
<del>Chionanthus retusus</del>	<del>Chinese fringe tree</del>
<del>Chlorophytum comosum</del>	<del>Spider plant</del>
<del>Citrus sp.</del>	<del>Citrus</del>
<del>Clematis sp.</del>	<del>Clematis</del>
<del>Coleus x hybridus</del>	<del>Coleus</del>
<del>Coreopsis verticillata</del>	<del>Threadleaf coreopsis</del>
<del>Cornus florida</del>	<del>Flowering dogwood</del>
<del>Cornus kousa</del>	<del>Chinese dogwood</del>
<del>Cortaderia selloana</del>	<del>Pampas grass</del>
<del>Cotoneaster apiculata</del>	<del>Willowleaf cotoneaster</del>
<del>Cotoneaster divaricatus</del>	<del>Spreading cotoneaster</del>
<del>Cotoneaster salicifolius</del>	<del>Willowleaf cotoneaster</del>
<del>Cupressocyparis Leyland</del>	<del>Leyland Cypress</del>
<del>Dendranthema hybrids</del>	<del>Mums</del>
<del>Dianthus barbatus</del>	<del>Sweet William</del>
<del>Dieffenbachia sp.</del>	<del>Dumb cane</del>
<del>Diospyros virginiana</del>	<del>Common persimmon</del>
<del>Euonymus alatus</del>	<del>Winged euonymus</del>
<del>Euonymus fortunei</del>	<del>Winterreeper euonymus</del>
<del>Festuca cinerea</del>	<del>Ornamental fescue</del>
<del>Forsythia intermedia</del>	<del>Forsythia</del>
<del>Fothergilla gardenii</del>	<del>Fothergilla</del>
<del>Fraxinus americana</del>	<del>White ash</del>
<del>Fraxinus pennsylvanica</del>	<del>Green ash</del>
<del>Fuchsia hybrids</del>	<del>Fuchsia</del>
<del>Ginkgo biloba</del>	<del>Ginko</del>
<del>Gleditsia triancanthos var. inermis</del>	<del>Shademaster honeylocust</del>
<del>Gypsophila paniculata</del>	<del>Baby's breath</del>
<del>Hamamelis intermedia</del>	<del>Witch hazel</del>
<del>Hemerocallis hybrids</del>	<del>Daylily</del>

Heuchera hybrids	Coral bells
Hibiscus syriacus	Rose of Sharon
Hosta lancifolia	Variegated hosta
Hydrangea paniculata	Panicle hydrangea
Hydrangea paniculata	Panicle hydrangea
Hypericum patulum	St. Johnswort
Iberis sempervirens	Candytuff
Ilex cassine	Daheon holly
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	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 styracifolia	American sweetgum
Liriope muscari	Monkey grass
Liriope spicata	Creeping lily turf
Lonicera japonica	Japanese honeysuckle
Lythrum sp.	Purple loose strife
Magnolia grandiflora	Southern magnolia
Magnolia liliiflora	Star magnolia
Malus floribunda	Showy crabapple
Myrica pensylvanica	Bayberry
Nandina domestica	Heavenly bamboo
Nyssa sylvatica	Black tupelo
Ophiopogon japonicus	Mondograss
Paeonis japonica	Peony
Parkinsonia aculeata	Jerusalem thorn
Pelagium 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

<i>Picea sitchensis</i>	Sitka spruce
<i>Pieris japonica</i>	Lilly of the valley bush
<i>Pinus contorta</i>	Lodgepole pine
<i>Pinus echinata</i>	Shortleaf pine
<i>Pinus elliotti</i>	Slash pine
<i>Pinus monticola</i>	Western white pine
<i>Pinus palustris</i>	Longleaf pine
<i>Pinus ponderosa</i>	Ponderosa pine
<i>Pinus strobus</i>	Eastern white pine
<i>Pinus taeda</i>	Loblolly pine
<i>Pinus thunbergiana</i>	Japanese black pine
<i>Potentilla frutosa</i>	Shrubby cinquefoil
<i>Prunus cistena</i>	Purple leaf sand cherry
<i>Prunus laurocerasus</i>	Cherry laurel
<i>Prunus serrulata</i>	Japanese flowering cherry
<i>Prunus subhirtella</i>	Higan cherry
<i>Pseudotsuga menziesii</i> var. <i>glauca</i>	Douglas fir
<i>Pyracantha angustifolia</i>	Firethorn
<i>Pyrus calleryana</i>	Bradford pear
<i>Quercus acutissima</i>	Sawtooth oak
<i>Quercus alba</i>	White oak
<i>Quercus falcata</i>	Southern red oak
<i>Quercus laurifolia</i>	Laurel oak
<i>Quercus palustris</i>	Pin oak
<i>Quercus prinus</i>	Chestnut oak
<i>Quercus rubra</i>	Northern red oak
<i>Quercus shumardii</i>	Shumard oak
<i>Quercus virginiana</i>	Live oak
<i>Rhamnus frangula</i>	Tall hedge alder buckthorn
<i>Rhododendron catawbiense</i>	Catawba rhododendron
<i>Rhododendron</i> sp.	Azalea hybrids
<i>Rhus aromatica</i>	Sumac
<i>Rosa</i> hybrids	Rose
<i>Salix babylonica</i>	Weeping willow
<i>Salix melanostachys</i>	Willow
<i>Spiraea japonica</i>	Spirea
<i>Spiraea nipponica</i>	Snowmound spirea
<i>Spiraea x bumalda</i>	'Limemaid' spiraea
<i>Swietenia mahagomi</i>	West Indies mahogany
<i>Syringa vulgaris</i>	Lilac
<i>Tabebuia impetiginosa</i>	Pink trumpet tree
<i>Tagetes</i> sp.	Marigold hybrids
<i>Taxodium distichum</i>	Bald cypress
<i>Taxus x media</i>	Anglojap yew



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<del>Thuja occidentalis</del>	<del>American arborvitae</del>
<del>Thuja plicata</del>	<del>Western red cedar</del>
<del>Trachycarpus fortunei</del>	<del>Windmill palm</del>
<del>Tsuga heterophylla</del>	<del>Western hemlock</del>
<del>Ulmus parvifolia</del>	<del>Chinese elm</del>
<del>Viburnum dentatum</del>	<del>Arrowwood viburnum</del>
<del>Viburnum lantana</del>	<del>Wayfaringtree viburnum</del>
<del>Viburnum macrocephalum</del>	<del>Chinese snowball</del>
<del>Viburnum opulus</del>	<del>European cranberry bush</del>
<del>Viburnum plicatum</del>	<del>Doublefile viburnum</del>
<del>Viburnum trilobum</del>	<del>Compact cranberrybush viburnum</del>
<del>Viburnum x juddi</del>	<del>Judd viburnum</del>
<del>Viburnum x rhytidophylloides</del>	<del>Viburnum 'Willowwood'</del>
<del>Viola wittrockiana</del>	<del>Pansy hybrids</del>
<del>Vitex agnus castus</del>	<del>Chaste tree</del>
<del>Weigela florida</del>	<del>Pink weigelia</del>
<del>Wisteria floribunda</del>	<del>Japanese wisteria</del>
<del>Yucca filamentosa</del>	<del>Yucca</del>

**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.~~

Spin Out® is a ~~registered~~ trademark of Griffin Corporation

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