

Reg # 1812-346

PM-22

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 M St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

1812-346

Date of Issuance:

APR 1 1993

Term of Issuance:

Conditional

Name of Pesticide Product:

SPIN OUT

NOTICE OF PESTICIDE:
 Registration
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Griffin Corporation
P.O. Box 1847, Rocky Ford Road
Valdosta, GA 31603-1847

Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the changes listed below before releasing your product for shipment:

- a. Add the phrase "EPA Registration No. 1812-346" to your labeling.
- b. Under **Environmental Hazards**, revise the last sentence to read, "Do not contaminate water when disposing of equipment washwaters."
- c. Under **Hazards to Humans**, delete "swallowed" from the first sentence. After the second sentence add, "Avoid breathing vapor or spray mist." Delete the fourth sentence.
- d. The **Statement of Practical Treatment** for swallowing is not required.
- e. Under **Pesticide Disposal** the appropriate statement is "Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility." Add "Do not contaminate water, food or feed by storage or disposal" directly below **STORAGE AND DISPOSAL**.

Signature of Approving Official:

PS

Date:

APR 1 1993

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f. Your application for registration indicated that labeling is affixed to the product as a booklet insert. Labeling, especially precautionary statements and hazard statements, must be reasonably expected to remain affixed to the container during any foreseeable conditions and period of use. Therefore, it is required that the front panel shall be displayed under customary conditions of purchase, which shall include the ingredient statement, Reg. No., and the signal word. If the individual product is packaged in an outer container which makes the label unreadable, the front panel must be duplicated and displayed on the front panel of the outer container.

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

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of your label is enclosed for your records.

Sincerely,



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

Enclosure

Jacket 3911

Spin Out™

ACCEPTED
with COMMENTS
in EPA Letter Dated:

APR 1 1993

LIQUID FLOWABLE

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

ROOT CONTROL COATING FOR CONTAINER-GROWN PLANTS

1812-346

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 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.

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**

Harmful if swallowed, absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Do not apply this product in a manner as to directly or through drift expose workers or other persons. Remove contaminated clothing and wash before reuse.

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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.

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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: 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

Spin Out is a plant growth regulator for use on plastic nursery containers as a root pruning agent to control root spialing 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>
Abiea amabilis	Pacific silver fir
Acer palmatum	Maple/japanese
Acer platanoides	Norway maple
Acer rubrum	Maple/red

Acer saccharinum	Silver maple
Acer saccharum	Sugar maple
Ageratum sp.	Floss flower
Amelanchier canadensis	Shadblow
Aronia arbutifolia	Chokeberry
Astilbe x arendsii	False spirea
Begonia sp.	Begonia
Berberis thunbergii	Barberry
) Betula nigra	River birch
Browallia	Sapphire flower
Buxua microphylla koreana	Korean boxwood
Buxus microphylla var. japonica	Japanese boxwood
Campanula carpatica	Bellflower
Carya illinoensis	Pecan
Cercis canadensis	Red bud
) 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
Cotoneaster apiculata	Willowleaf cotoneaster



Cotoneaster divaricatus

Spreading cotoneaster

Cotoneaster salicifolius

Willowleaf cotoneaster

Dianthus barbatus

Sweet William

Dieffenbachia sp.

Dumb cane

Euonymus alata

Siebold

Euonymus fortunei

Bigleaf wintercreeper

Forsythia intermedia

Forsythia

Fothergilla gardenii

Fothergilla

) Fraxinus americana

White ash

Fraxinus pennsylvanica

Green ash

Fuchsia hybrids

Fuchsia

Gleditsia triacanthos var. inermis

Honey locust/shade master

Gypsophila paniculata

Baby's breath

Hamamelis intermedia

Witch hazel

Hemerocallis hybrids

Daylily

) Heuchera hybrids

Coral bells

Hosta lancifolia

Variegated hosta

Hydrangea paniculata

Panicle hydrangea

Iberis sempervirens

Candytuff

Ilex cassine

Dahoone

Ilex galbra

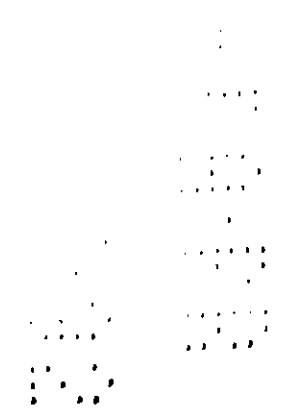
Compact inkberry

Ilex hybrids

Savannah and east palatka

Impatiens hybrids

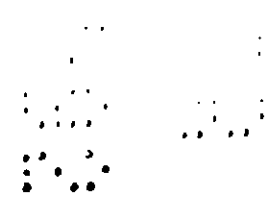
Sultana



Juniperus horizontalis cultivars	Creeping juniper
Juglans nigra	Black walnut
Juniperus chinensis	Sargent's juniper
Juniperus sabina	Savin juniper
Juniperus virginiana	Eastern red cedar
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
Malus floribunda	Showy crabapple
Myrica pensylvanica	Bayberry
Paeonis japonica	Peony
Parkinsonia aculeata	Jerusalem thorn
Pelagonium x domesticum	Geranium
Petunia hybrida	Petunia hybrids
Phlox sp.	Phlox hybrids



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
Potentilla fructosa	Shrubby cinquefoil
Prunus cistena	Purple-leaf sand cherry
Prunus serrulata 'Kwanzan'	Japanese flowering cherry
) Pseudotsuga menziesii var. gluca	Douglas fir
Pyracantha angustifolia	Firethorn
Pyrus calleryana	Bradford pear
Quercua rubra	Northern red oak
Quercus acutissima	Sawtooth oak
Quercus alba	White oak
Quercus laurifolia	Laurel oak
Quercus palustris	Pin oak



Quercus prinus	Chestnut oak
Quercus shumardii	Shumard oak
Quercus virginiana	Live oak
Rhamnus frangula	Tallhedge alder buckthorn
Rhododendron catawbiense	Catawba rhododendron
Rhododendron sp.	Azalea hybrids
Rhus aromatica	Sumac
Rosa hybrids	Rose
Salix babylonica	Weeping willow
Spiraea japonica	Spirea
Spiraea nipponica	Snowmound spirea
Spiraea x bumalda	'Limemand' spiraea
Swietenia mahagomi	West Indies mahogany
Tabebuia impetiginosa	Pink trumpet tree
Tagetes sp.	Marigold hybrids
Taxodium distichum	Bald cypress
Thuja occidentalis	White cedar
Thuja plicata	Western red cedar
Trachycarpus fortunei	Windmill palm
Tsuga heterophylla	Western hemlock
Ulmus parvifolia	Chinese elm
Viburnum dentatum	Arrowwood viburnum
Viburnum macrocephalum	Chinese snowball



Viburnum opulus	European cranberry-bush
Viburnum plicatum	Doublefile viburnum
Viburnum trilobum	Compact cranberrybush viburnum
Viburnum x juddi	Judd virburnum
Viburnum x rhytidophylloides	Viburnum 'Willowwood'
Viola wittrockiana	Pansy hybrids
Weigela florida	Pink weigelia
X Cupressocyparis leylandi	Leyland cypress
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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