

File

92-08-58185-27 10/11/11



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460**

**OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES**

**John A. Francis, Jr.
GRACE-SIERRA CROP PROTECTION COMPANY
1001 Yosemite Drive
Milpitas, CA 95035**

**Subject: Label Amendment Submission of 06/30/93 in Response to PR Notice 93-7
EPA Reg. No. 58185-27
ROUT ORNAMENTAL HERBICIDE**

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

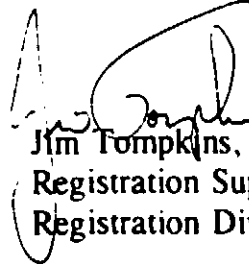
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

BEST AVAILABLE COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

John A. Francis, Jr.
GRACE-SIERRA CROP PROTECTION CO
REGULATORY AFFAIRS DEPT
1001 YOSEMITE DR
MILPITAS CA 95035

Comment for: EPA Reg Nr.58185-27
ROUT ORNAMENTAL HERBICIDE

The following specific comments pertain to your WPS
labeling submission concerning the product
cited above:

Delete the crossed-out statements on your proposed label.
They are redundant statements or phrases.

Move the statement "Under prolonged use a dust filter and disposable protective
garment are additionally recommended" from the PRECAUTIONS section to the
"Personal Protective Equipment" Section.

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For Sale To, Use and Storage By Commercial Nursery, Cut Flower, Foliage And Landscape Personnel Only.

ROUT[®] *Ornamental Herbicide*

**For preemergence control of weeds in container, field grown and landscape
ornamentals, cut flowers and foliage crops.**

CAUTION: Keep out of reach of children. See back panel for additional caution statements.

Successful use of this product requires:

- Even distribution of particles at the proper application rate.
- Application to dry foliage only.
- Application timing when plants are not breaking dormancy or making a flush of growth.
- Application at least two (2) weeks prior to enclosure in greenhouse/shadehouse type structures and two (2) weeks prior to shipping.

ACTIVE INGREDIENTS:

Oxyfluorfen: 2-chloro-1-(3-ethoxy-4-nitrophenoxy)-4 (trifluoromethyl) benzene	2.00%
Oryzalin: 3,5-dinitro-N ¹ , N ¹ -dipropylsulfanilamide	1.00%

INERT INGREDIENTS:	97.00%
Total	100.00%

STORAGE AND DISPOSAL:

Do not contaminate water, fertilizer, other pesticides, food or feed by storage or disposal.

Storage: Store in a dry place. Protect from water and extreme heat.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide 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. Damaged container and/or spilled pesticide should be disposed of according to instructions.

EPA Reg No 58185-27

EPA Est No 62171-MS-1 Product of U.S.A.

Net weight **50 lbs.(22.6kg)**

GRACE/SIERRA CROP PROTECTION COMPANY

1001 Yosemite Drive
Milpitas, CA 95035
Telephone 408/263-8080

©1991, ROUT[®] is a registered trademark of Grace-Sierra Crop Protection Company for its brand of ornamental herbicide.

F-38 9/92 MS 10M

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ACCEPTED
with COMMENTS
In EPA Letter Dated

MAR 17 1994

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

58185-27

ROUT®

Ornamental Herbicide

For preemergence control of weeds in container, field grown and landscape
ornamentals, cut flower and foliage crops.

The species listed below have been tested under actual growing conditions and found tolerant at the recommended application rate.

Abelia

x grandiflora (Glossy Abelia)

Alyogyne

huegelii (Blue Hibiscus)

Andromeda

polifolia (Bog Rosemary)

Anthurium andraeanum 'Ozaki Red' (Ozaki Red Anthurium)

Arctostaphylos

uva-ursi (Bearberry/Kinnikinnick)

Banksia menziesii 'Raspberry Frost' (Raspberry Frost Banksia)

Berberis

thunbergii 'Crimson Pygmy'

(Crimson Pygmy Barberry)

Bougainvillea sp.

'Barbara Karst' (Barabra Karst Bougainvillea)

Buxus

microphylla japonica (Japanese Boxwood)

sempervirens 'Welleri' (English Boxwood)

Carissa

grandiflora 'Fancy' (Natal Plum)

Chamaecyparis

obtusa 'Letinca Aruea' (Gold Hinoki False Cypress)

pisifera 'Filifera Aurea Nana'

(Dwarf Golden Thread-Branch Cypress)

Cercis

canadensis (Redbud)

Codiaeum

norma 'Low Life' (Low Life Croton)

Cornus

baileyi (Baileyi Dogwood)

florida (Flowering Dogwood)

Cotoneaster

dammeri 'Coral Beauty'

(Coral Beauty Cotoneaster)

salicifolius 'Repens' (Willowleaf Cotoneaster)

Cupressus

sempervirens 'Glauca' (Itaian Cypress)

Diosma

ericoides (Breath of Heaven)

Dracaena massangeana (Cornplant)

Dracaena deremensis 'Warneckii' (Striped Dracaena)

Elaeagnus

pungens 'Fruitlandii' (Fruitland Silverberry)

Eriobotrya

japonica (Loquat)

Escallonia

x exoniensis 'Tradesii' (Frades Escallonia)

Euonymus

alata 'Compacta' (Dwarf Burning Bush)

fortunei 'Emerald 'n Gold' (Emerald Gold E.)

fortunei 'Gold Edge' (Gold Edge E.)

fortunei 'Vegeta' (Euonymus Vegetus)

kiautschovica 'Manhattan' (Manhattan E.)

Euphorbia

milii (Crown of Thorns)

Ficus

benjamina 'Lady Diane' (Weeping Fig)

lyrata (Fiddleleaf Fig)

microcarpa nitida (Little Leaf Ficus)

Forsythia

x intermedia 'Lynnwood' (Lynnwood Gold F.)

Gardenia

jasminoides 'August Beauty' (August Beauty Gardenia)

Gelsemium

sempervirens (Carolina Jessamine)

Gypsophila sp. (Baby's Breath)

Hibiscus

rosa-sinensis 'Brilliant' (Brilliant Hibiscus)

rosa-sinensis 'Crown of Bohemia' (Crown of Bohemia H.)

Hypericum sp. (St. Johnswort)

Iberis

sempervirens (Evergreen Candy Tuft)

Ilex

aquipernyi 'San Jose' (San Jose Holly)

cornuta 'Burfordii' (Burford Holly)

cornuta 'Burfordii Nana' (Dwarf Burford Holly)

cornuta 'Needlepoint' (Needle Point Holly)

cornuta 'Rotunda' (Dwarf Chinese Holly)

crenata 'Convexa' (Convex Japanese Holly)

crenata 'Hetzii' (Japanese Holly)

vomitaria 'Schillings' (Schillings Holly)

Jasminum

nitidum (Angelwing Jasmine)

sp. (Confederate Jasmine)

Juniperus

chinensis 'Gold Coast' (Gold Coast Juniper)

chinensis 'Mint Julip' (Mint Julip Juniper)

chinensis 'Pfitzerana Glauca' (Blue Pfitzer Juniper)

chinensis 'Pfitzerana Old Gold' (Old Gold Juniper)

chinensis 'Sargentii Viridis' (Green Sargent Juniper)

chinensis 'Sea Green' (Sea Green Juniper)

conferta 'Blue Pacific' (Blue Pacific Juniper)

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conferta (Shore Juniper)
horizontalis 'Bar Harbor' (Bar Harbor Juniper)
horizontalis 'Douglasii' (Waukegan Juniper)
horizontalis 'Plumosa' (Andorra Juniper)
sabina 'Broadmoor' (Broadmoor Juniper)
sabina 'Tamariscifolia' (Tam Juniper)
squamata 'Blue Star' (Blue Star Juniper)

Lantana
montevidensis (Weeping Lantana)
montevidensis 'Radiation' (Radiation Lantana)

Leucodendron hybrid
'Safari Sunset' (South African Rose)

Leucospermum cordifolium
(Pincushion Protea)

Ligustrum
japonicum 'Texanum' (Waxleaf Privet, Texas Privet)
lucidum (Glossy Privet)
sinense 'Variegata' (Dwarf Variegated Chinese Privet)
sp. 'Jack Frost' (Jack Frost Ligustrum)
x 'Vicaryi' (Vicary Golden Privet)

Lonicera
x *xvlostoides* 'Clavey's Dwarf'
(Clavey's Dwarf Honeysuckle)

Mahonia
aquifolium (Oregon Grape Holly)

Microbiota
decussata (Russian Cypress)

Nandina domestica 'Nana' (Dwarf Nandina)

Nerium
oleander (Oleander)

Osmanthus
fragrans (Sweet Osmanthus)
heterophyllus 'Variegatus' (Variegated Osmanthus)

Photinia
x *fraseri* (Fraser Photinia, Red Tip)

Picea
abies 'Ohlendorffii' (Norway Spruce)
glauca 'Conica' (Dwarf Alberta Spruce)
pungens 'Glauca' (Colorado Blue Spruce)

Pieris
japonica 'Mountain Fire' (Mountain Fire Andromeda)

Pinus
elliottii (Slash Pine)
mugo mugo (Mugho Pine)
radiata (Monterey Pine)
strobus (Eastern White Pine)
sylvestris (Scotch Pine)
thunbergiana (Japanese Black Pine)

Pittosporum
crassifolium (Evergreen Pittosporum)
tenuifolium (Kohuhu Pittosporum)
tobira (Green Pittosporum)
tobira 'Wheeler's Dwarf'

Podocarpus
gracilior (Weeping Podocarpus)

Potentilla
fruticosa 'Gold Drop' (Gold Drop Potentilla)

Protea neriifolia 'Pink Mink' (Pink Mink Protea)

Prunus
x *cistena* (Red-Leaf Plum)

Pyracantha
fortuneana 'Graberi' (Graberi Pyracantha)
'Mohave' (Mohave Pyracantha)
'Navajo' (Navajo Pyracantha)

Raphiolepis
indica 'Ballerina' (India Hawthorn)
indica 'Pinkie' (India Hawthorn)
indica 'Pink Cloud' (Pink Cloud Raphiolepis)

Rhododendron
sp. 'Dora Amateis' (Dora Amateis R.)
sp. 'Coral Bell' (Azalea)
sp. 'Copperman' (Azalea)
sp. x *exbury* (Azalea)
sp. 'Pink Ruffles' (Azalea)
sp. 'Snow' (Azalea)

Salvia
farinacea (Dwarf Blue Salvia)

Schefflera
arboricola (Dwarf Schefflera)

Spiraea
x *bumalda* 'Anthony Waterer' (Anthony Waterer S)

Taxus
media 'Hicksii'

Taxus x *media* 'Runyonii'

Ternstroemia
gymnanthera

Thuja
occidentalis 'Nigra' (Dark Green Arborvitae)
occidentalis 'Ellwangeriana Aurea' (Golden Arborvitae)
occidentalis 'Hetz's Midget' (Hetz Midget Arborvitae)
occidentalis 'Pyramidalis' (Pyramidal Arborvitae)
occidentalis 'Smaragd' (Emerald Arborvitae)
orientalis 'Aurea Nana' (Dwarf Golden Arborvitae)
orientalis 'Bluc Cone' (Blue Cone Arborvitae)

Trachelospermum
asiaticum 'Solo' (Asiatic Jasmine)
asiaticum 'White Mist' (Variegated Asiatic Jasmine)
jasminoides (Confederate or Star Jasmine)

Vaccinium
ashei 'Homebell' (Homebell Blueberry)

Verbena
peruviana (Sand Verbena)

Viburnum
carlesii (Korean Spice Viburnum)
davidii (David Viburnum)
macrocephalum (Chinese Snowball)
plicatum 'Tomentosum' (Double File Viburnum)

Vitis
x SV5279 'Aurora' (White Wine Grape)

Weigela
florida 'Java Red' (Java Red Weigela)
sp. 'Boskoop Glory' (Boskoop Glory W)

Xylosma
congestum

The species listed below have been tested and results do not warrant use at this time.

Euonymus japonica 'Silver King' (Silver King Euonymus)
Euryops pectinatus (Greyleaf Daisy)
Ficus pumila (Creeping Fig)

Hydrangea paniculata 'Grandiflora' (Peegee Hydrangea)
Ilex crenata 'Helleri' (Helleri Japanese Holly)
Trachelospermum asiaticum 'Oblanceolatum' (Hardy Star Jasmine)

ROUT® has been found to give preemergent weed control of the following weeds:

Grassy Weeds

Annual Bluegrass	(<i>Poa annua</i>)	Foxtail, Green	(<i>Setaria viridis</i>)
Barnyardgrass	(<i>Echinochloa crusgalii</i>)	Foxtail, yellow	(<i>Setaria lutescens</i>)
Crabgrass	(<i>Digitaria sanguinalis</i>)	Goosegrass	(<i>Eleusine indica</i>)
Fall Panicum	(<i>Panicum dichotomiflorum</i>)	Kikuyu Grass	(<i>Pennisetum clandestinum</i>)

Broadleaf Weeds

Ageratum	(<i>Ageratum conyzoides</i>)	Moss	(<i>Isopterygium albesceus</i>)
Artillery weed	(<i>Pilea microphylla</i>)	Oxalis	(<i>Oxalis stricta</i>)
Bittercress	(<i>Cardamine pensylvanica</i>)	Pearlwort	(<i>Sagina procumbens</i>)
Buttonweed	(<i>Borreria laevi.</i>)	Pigweed	(<i>Amaranthus retroflexus</i>)
Castor bean	(<i>Ricinus communis</i>)	Primrose,	
Chickweed, Common	(<i>Stellaria media</i>)	Cutleaf evening	(<i>Oenothera laciniata</i>)
Clover, white	(<i>Trifolium repens</i>)	Purslane	(<i>Portulaca oleracea</i>)
Dandelion	(<i>Taraxacum officinale</i>)	Shepherdspurse	(<i>Capsella bursa-pastoris</i>)
Fireweed	(<i>Epilobium angustifolium</i>)	Sowthistle	(<i>Sonchus arvensis</i>)
	(<i>Erechtites hieracifolia</i>)	Sowthistle, Common	(<i>Sonchus oleraceus</i>)
Groundsel	(<i>Senecio vulgaris</i>)	Spurge, Garden	(<i>Euphorbia hirta</i>)
Lambsquarter	(<i>Chenopodium album</i>)	Spurge, Hairy	(<i>Euphorbia vermiculata</i>)
Marestail	(<i>Conyza canadensis</i>)	Spurge, Prostrate	(<i>Euphorbia supina</i>)
Medic	(<i>Medicago trunculata</i>)	Spurge, Spotted	(<i>Euphorbia maculata</i>)

PRECAUTIONARY STATEMENTS:

Hazards to Humans and Domestic Animals: CAUTION, causes eye injury. Do not get in eyes, on skin, or on clothing. This product may cause allergic skin reaction. In case of contact, immediately wash eyes or skin with plenty of water. Get medical attention if irritation persists. Harmful if swallowed. Avoid inhalation.

Personal Protective Equipment

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

Waterproof gloves

Shoes plus socks.

Protective eyewear

Follow 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.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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User Safety Recommendations:

Users should:

- 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 this 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. This pesticide is toxic to wildlife and fish. Use with care when applying in areas adjacent to any body of water. Apply this product only as specified on the label. Do not contaminate water by cleaning of equipment or disposal of wastes.

DESCRIPTION:

ROUT is a preemergent herbicide and does not control established weeds. ROUT combines two selective herbicides on one clay granule giving the user a broader spectrum of weed control and ornamental plant tolerance. ROUT is not registered for use on vegetable or edible fruit bearing crops, turf, bedding plants or flowering crops except as described in the landscape ornamentals and cut flower and foliage crops sections.

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, 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 uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves.
- Shoes plus socks
- Protective eyewear

For use only on container, field grown, and landscape ornamentals. This herbicide product 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.

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APPLICATION RECOMMENDATIONS

The user should exercise reasonable judgment and caution with this product. Until familiar with results under user growing conditions, untreated check blocks should be left in each variety for performance comparisons.

ROUT should be applied at the recommended rate with a properly calibrated spreader which will assure accurate, even particle distribution. **Do not disturb the soil surface once the product has been applied as the herbicide barrier will be broken.** Best results are obtained when the product is watered in with approximately 1/2 inch of water immediately following application. Adequate moisture is required to activate the herbicide and wash particles off the foliage.

Users can determine if proper rate and distribution is being achieved by using a Grace-Sierra Rate Calibrator which is available free from Grace-Sierra Crop Protection Company. This simple tool allows you to quickly calibrate your application method.

APPLICATION RATES

Amount of ROUT®	Square Foot	100 Square Feet	Acre	Square Meter	100 Square Meters
1 ounce = 28 grams(g)	1g	100 g	100 lbs	10.8g	1.1kg

A. CONTAINER GROWN ORNAMENTALS

Apply ROUT in the spring or fall prior to weed seed germination or following complete weed removal. Repeat applications are required at three (3) month intervals during the growing season. If weed seed germination is observed prior to three (3) month normal application, product can be reapplied as recommended, but not less than two (2) months after previous application. Fall applications should be made two (2) weeks prior to placing plants in enclosed greenhouse structures.

Do not wait longer than three (3) months to reapply. Three months is the maximum residual for ROUT under most conditions. During periods of extreme temperature/rainfall conditions, product applications may be required at two (2) month intervals.

Potted liners - Remove established weeds from liners prior to transplanting into containers. Following planting, and prior to chemical application, irrigate with approximately 1/2 inch of water to firm potting media around root systems. Allow foliage to dry. Broadcast product evenly over the container growing area. Water in with approximately 1/2 inch of water immediately after application.

Bare-root liners - Remove established weeds before herbicide application. Broadcast product evenly over the container growing area three (3) weeks after potting. Irrigate with approximately 1/2 inch of water immediately after application.

In container production nurseries where runoff water is recycled, care must be taken to locate pump intake line opening(s) close to the collection pond surface to avoid disturbing and recirculating clay fractions/organic matter accumulation near the pond bottom. This debris/settlement may contain amounts of previously applied pesticides tied up on these clay/organic matter fractions and may lead to plant injury.

B. FIELD GROWN ORNAMENTALS AND LABELED CHRISTMAS TREES

Apply immediately after planting or in the spring prior to weed seed germination or following complete weed removal.

Apply ROUT at 50 lb/A rate (one bag/acre) for a maximum of two (2) applications per growing season, or at 100 lb/acre rate once a year. ROUT is not recommended for use on bare root stock if irrigation is not available.

Potted liners - Remove established weeds from liners prior to transplanting into field. Following planting and prior to chemical application irrigate with approximately 1/2 inch water to firm soil around root systems. Allow foliage to dry. Broadcast product evenly over the field growing area. Water in with approximately 1/2 inch of water immediately after application and leave the soil undisturbed.

Bare-root liners - Irrigate with approximately 1/2 inch of water after planting to firm soil around root systems. Remove established weeds before herbicide application. Broadcast product evenly over the field growing areas one (1) week after planting. Irrigate with approximately 1/2 inch of water immediately after application and leave the soil undisturbed. Loosen the soil by light cultivation prior to reapplication of ROUT.

C. LANDSCAPE ORNAMENTALS

Application of ROUT should be directed only to those species listed on the ROUT label. ROUT is not registered for use on vegetables or edible fruit bearing crops, turf, bedding plants or flowering crops except Protea and Salvia species. Apply ROUT at 100 lb/acre rate.

Apply immediately after planting or in the spring prior to weed seed germination or following complete weed removal. Irrigate with approximately 1/2 inch of water immediately after application and leave the soil undisturbed. Do not apply more than two (2) applications per season.

D. CUT FLOWER AND FOLIAGE CROPS

Follow all use precautions listed on the label unless excluded under specific crops below. Apply prior to weed seed germination or following complete weed removal. Following planting, and prior to chemical application, irrigate with approximately 1/2 inch of water to firm soil around roots. Always allow foliage to dry completely prior to ROUT application. Broadcast product evenly over the production area at the proper rate. Irrigate immediately after application to activate the herbicide. Wait three (3) weeks before applying to bare root plantings.

FIELD GROWN PROTEA

Apply ROUT at 100 lb/A rate to field plantings of 1-2 year Protea nursery stock. Reapplications can be made at three (3) month intervals throughout the production cycle. Apply ROUT at 50 lbs/acre to soils with low organic matter levels (0.5-2%). Shallow feeder roots exposed by cultivation or erosion should be covered prior to ROUT application.

SARAN HOUSE GROWN ANTHURIUMS

Apply ROUT at 100 lb/A at three (3) months intervals. Do not reapply at less than three (3) month intervals in volcanic cinder soils. Do not treat greater than 1/4 (25%) of any saran production unit in a given day. All plant tissue (leaves/stems) must be completely dry prior to ROUT application. Avoid contact with leaf petiole attachments and flowering parts. Application should be made with granular spreaders which allow for directed placement of ROUT to the base of plants. Consideration should be given to providing optimum ventilation to areas treated with ROUT to avoid injury due to vapors.

DRACAENA FIELD STOCK

Apply ROUT at 100 lb/acre rate at three (3) month intervals. Applications must be made with a granular spreader which allows for directed placement of ROUT to the base of plants. When establishing new field stock plantings, bind foliage of unrooted cuttings with rubber bands or string to prevent lodging of granules in leaf whorls (see PRECAUTIONS) and to allow for placement of product to base of plants. ROUT may be reapplied after cuttings have been taken from field stock. Before application the remaining side shoots (with expanded leaves) should be removed to prevent lodging of the granules in the leaf whorls.

PRECAUTIONS

Do not apply product directly to bare roots of woody ornamentals as injury may result.

Do not apply product to wet or dew covered foliage. However, should this happen, irrigate immediately to completely remove herbicide particles from leaf surfaces.

Do not apply to whorl-leaved plants, such as *Dracaena sp.*, as their leaves channel the herbicide granules to the leaf base. This makes removal of product granules difficult and may result in foliage injury.

Do not apply product in enclosed greenhouse or enclosed shadehouse type structures.

Product should not be applied two (2) weeks prior to or two (2) weeks following leaf bud break, or during periods of flush growth. Newly forming leaves are particularly sensitive to this product. Spotting or leaf drop may result from such applications.

Do not apply within two (2) weeks prior to enclosure in greenhouse-type structures or within two (2) weeks prior to shipping.

Do not apply other labeled herbicides to areas treated with ROUT within two (2) months following treatment. Compatibility of ROUT with other ornamental herbicides has not been verified.

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Do not disturb the soil surface following application as the herbicide barrier will be broken, resulting in less than optimum weed control.

Do not incorporate product into potting media or soil. Dilution of the active ingredient and possible injury to plant roots may result.

Do not apply in wind conditions which might affect product distribution. Wind may affect product distribution and move the product onto sensitive species. Uneven product distribution will result in marginal weed control.

~~Whenever applying this product safety goggles and rubber gloves should be worn.~~ Under prolonged use a dust filter and disposable protective garment are additionally recommended.

ROUT is not recommended for use in greenhouse liner production beds; apply only to container, field grown and landscape ornamentals, cut flower and foliage crops listed.

IMPORTANT NOTICE: LIMITATION OF LIABILITY

This product has been researched to provide necessary data to support its use on the ornamentals listed on the label. However, it is understood that tests have not been carried out under all growing conditions for all plants listed on the label. The user should always follow the label directions and exercise good judgment and caution when using the product on any given variety until familiar with the results under his growing conditions.

The large numbers of ornamental species and cultivars has prevented Grace-Sierra from establishing tolerance of each to Rout Ornamental Herbicide. Nursery personnel may conduct simple trials to determine if Rout can be applied safely to additional on-site varieties. The user should test the recommended rate on a small group of plants for phytotoxicity prior to wide-spread use for pre-emergence weed control. The user assumes all liabilities from Rout Ornamental Herbicide application to plants treated under the above provision.

NO WARRANTY OR REPRESENTATION IS MADE, EXPRESSED, OR IMPLIED, CONCERNING THE RESULTS OBTAINED FROM THE USE OF THIS PRODUCT IF NOT USED IN ACCORDANCE WITH DIRECTIONS. The exclusive remedy of the User or Buyer, and the limit of liability of Grace-Sierra Crop Protection Company or any other Seller, for any and all losses, injuries or damages resulting from the use or handling of this product shall be the purchase price paid by the User or Buyer for the quantity of this product involved. The Buyer and all Users are deemed to have accepted the terms of this Notice, which may be varied only by agreement in writing signed by a duly authorized representative of the Grace-Sierra Crop Protection Company.

GRACE-SIERRA CROP PROTECTION COMPANY
Milpitas, CA 95035

If you have any questions regarding the use of this product,
call TOLL FREE 1-408-263-8080.

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