



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

JAN 14 1994

Karen S. Stumpf
CIBA-GEIGY CORP.
P.O. BOX 18300
Greensboro, N.C. 27419

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 08/09/93 in Response to PR Notice 93-7
EPA REG. NO. 100-665
PENNANT 5G GRANULAR 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. 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:

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

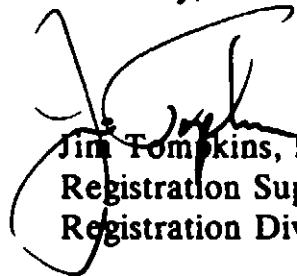
Submit the final printed labeling via the U.S. Postal Service to:

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

WPS
(Front Panel)

ACCEPTED
with COMMENTS
In EPA Letter Dated
JAN 14 1994

Pennant® 5G

Granular Herbicide

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
100-665

For weed control in nurseries, turf and landscape plantings

40 Pounds
Net Weight

10 Pounds
Net Weight

Active Ingredient:	
Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)-	
N-(2-methoxy-1-methylethyl) acetamide	5.0%
<u>Inert Ingredients:</u>	<u>95.0%</u>
Total	100.0%

Product ID. 54790 (40 lbs.)

Pennant 5G is a granular herbicide

KEEP OUT OF REACH OF CHILDREN

CAUTION

See additional precautionary statements
and directions for use on back of bag.

EPA Reg. No. 100-665

EPA Est. 5905 IA-1

Ciba-Geigy

(Back Panel)

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product. If terms are not acceptable, return the unopened product container at once.

Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, 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 Ciba-Geigy or the Seller. All such risks shall be assumed by the Buyer.

Ciba-Geigy warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. Ciba-Geigy makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Ciba-Geigy or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Ciba-Geigy and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of Ciba-Geigy.

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 12 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

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas without protective clothing until dust has settled.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, AND/OR ILLEGAL RESIDUES.

General Information

Pennant 5G Herbicide controls many annual grasses, certain broadleaf weeds and yellow nutsedge.

Pennant 5G may be used on commercial and residential turf and other non-crop land including, but not limited to: airports, roadsides, golf courses, sports fields, public recreational areas, ornamental gardens, cemeteries and other landscaped areas. Pennant 5G may also be used in and around container and field-grown ornamentals, nonbearing nursery stock and on sod farms.

DO NOT USE IN GREENHOUSES OR OTHER ENCLOSED STRUCTURES.

NOTICE TO USER: Plant tolerances to Pennant 5G Herbicide have been found to be acceptable in the specific genera and species listed on this label. Because of the large number of species and varieties of plants, it is impossible to test each for tolerance to Pennant 5G. Neither the manufacturer nor the seller has determined whether or not Pennant 5G can be used safely on plants not specified on this label. Therefore, the professional user should determine if Pennant 5G can be used safely by testing the recommended rates on a particular group of similar unlabeled ornamental plants in a small area before widespread use or by checking with the local weed specialist for guidance.

Applicator Settings

Apply Pennant 5G using a rotary spreader or similar type applicator at rates indicated below. Calibrate spreader before application according to the manufacturer's directions. Refer to chart below for suggested settings. Settings are only reference points for calibration. Due to variations in equipment, equipment age and condition, humidity, variations in walking speed, and other variables, these settings should not be used without first checking them through calibration.

Suggested Applicator Settings

Rate Per Acre	40 lbs.	60 lbs.	80 lbs.
Rate per 1,000 sq. ft.	.9 lb.	1.35 lbs.	1.8 lbs.
Ounces per 1,000 sq. ft.	14.5 oz.	21.75 oz.	29 oz.
Applicator Brand	Suggested Settings		
Scott R-7	--	--	B+5.5/10
Scott R-8	G+8.5/10	H+3.5/10	H+6.5/10
Lesco	A+7.5/10	--	C+1.5/10
Warren-T	2.8	3.3	3.8
Spyker & Cyclone	2.6	2.8	3.0

Nurseries and Landscape Plantings

Weeds Controlled

annual bluegrass	green foxtail	yellow foxtail
barnyardgrass	prairie cupgrass	<u>yellow nutsedge</u>
(watergrass)	red rice	black nightshade
crabgrass	signalgrass	carpetweed
crowfootgrass	(Brachiaria)	Florida pusley
fall panicum	southwestern cupgrass	galinsoga
foxtail millet	witchgrass	pigweed
giant foxtail		
goosegrass		

Weeds Partially Controlled*: common purslane, groundsel, hairy nightshade, sandbur, seedling johnsongrass, shattercane and volunteer sorghum.

*Control of these weeds can be erratic due partially to variable weather conditions.

Note: If you plan to use Pennant 5G to control weed species not listed on this label, check with your local weed specialist or test Pennant 5G on a small-scale basis before widespread use.

Application

Broadcast Pennant 5G at rates shown below. Apply before grass and broadleaf weeds or yellow nutsedge emerge, or after existing weeds or nutsedge plants have been removed. A second application may be needed to provide control for an extended period. Do not make more than 2 applications per year.

Suggested Rates of Pennant 5G

<u>Soil Texture</u>	<u>Lbs./A*</u>	<u>Lbs./1,000 sq. ft.</u>
Coarse	40-60	0.9 - 1.4
Medium	40-60	0.9 - 1.4
Fine	60-80	1.4 - 1.8

*Use higher rates for a given soil texture on high organic matter soils and where yellow nutsedge and/or a heavy infestation of weeds is expected. Use the lower rates on soils with low organic matter content, and where light infestations of grass weeds are expected. In peat and muck soils and soils highly enriched with organic matter (i.e., sawdust) and/or synthetic mixes, the activity of Pennant 5G may be reduced.

Note: Whenever rainfall does not occur within one week after application, overhead irrigation is recommended (1/4-1/2 inch) to move the herbicide into the soil to provide weed control activity. Use the lower water volume (1/4 inch) on coarse-textured soils and the higher volume (1/2 inch) on fine-textured soils.

If band applications are used, calculate the amount of Pennant 5G needed as follows:

$$\frac{\text{Band width in inches}}{\text{Row Spacing in inches}} \times \text{Broadcast Rate Per Acre} = \text{Band Rate Per Acre}$$

Precautions: 1) To avoid plant injury, do not apply Pennant 5G to seedbeds, cutting beds, or unrooted cuttings before transplanting or to plants until the soil has firmly settled around roots. 2) Should Pennant 5G granules adhere to the foliage, follow with sufficient overhead irrigation to wash Pennant 5G

from the foliage to reduce the chance of injury.

Pennant 5G has been found to be safe on the following plants:

Container-Grown Plants

<u>Scientific Name</u>	<u>Common Name/Variety</u>
<i>Abelia grandiflora</i>	Glossy Abelia
<i>Acer rubrum</i>	Red Maple
<i>Ajuga reptans</i>	Ajuga
<i>Aucuba japonica variegata</i>	Variegated Aucuba
<i>Betula nigra</i>	River Birch
<i>Buxus</i> spp.	Boxwood
<i>Carex</i> spp.	Carex
<i>Cornus</i> spp.	Dogwood
<i>Cotoneaster</i> spp.	Cotoneaster
<i>Euonymus fortunei</i>	Euonymus
<i>Euonymus kiautschovicus</i>	Manhattan Euonymus
<i>Forsythia</i> spp.	Forsythia
<i>Gardenia jasminoides</i>	Gardenia
<i>Hedera helix</i>	English Ivy
<i>Hosta lancifolia</i>	Variegated Hosta
<i>Ilex attenuata</i>	Savannah Holly
<i>Ilex cornuta</i>	Dwarf Burford Holly
<i>Ilex crenata</i>	Japanese Holly
<i>Juniperus chinensis</i>	Chinese Juniper
<i>Juniperus horizontalis</i>	Juniper
<i>Juniperus sabina</i>	Hick's Juniper/Foemina
<i>Juniperus virginiana</i>	Eastern Red Cedar
<i>Kalmia</i> spp.	Mountain Laurel
<i>Leucothoe fontanesiana</i>	Leucothoe
<i>Ligustrum japonicum</i>	Ligustrum or Privet
<i>Liriope muscara</i>	Liriope
<i>Liriope spicata</i>	Green Liriope
<i>Myrica cerifera</i>	Wax Myrtle
<i>Ophiopogon japonicus</i>	Mondo Grass
<i>Pachysandra terminalis</i>	Japanese Pachysandra
<i>Pinus strobus</i>	White Pine
<i>Pinus thunbergii</i>	Japanese Black Pine
<i>Pittosporum tobira</i>	Pittosporum
<i>Quercus phellos</i>	Willow Oak
<i>Rhododendron catawbiense</i>	Catawba Azalea
<i>Rhododendron indica</i>	Formosa/Indica Azalea
<i>Rhododendron obtusum</i>	Kurume Azalea
<i>Taxus cuspidata</i>	Yew
<i>Thuja occidentalis</i>	Globe Arborvitae
<i>Tsuga canadensis</i>	Hemlock
<i>Viburnum</i> spp.	Viburnum
<i>Yucca</i> spp.	Yucca

Field- and Liner*-Grown Plants and Plants in Landscape Plantings

*Plants transplanted normally in rows in a nursery or similar area for further growth before transplanting to final growing location (place of establishment).

<u>Scientific Name</u>	<u>Common Name/Variety</u>
<i>Abelia</i> spp.	Glossy Abelia
<i>Abies</i> spp.	Fir
<i>Acer</i> spp.	Maple
<i>Achillea</i> spp.	Yarrow
<i>Agapanthus africanus</i>	African Lily
<i>Ageratum</i> spp.	Blue Ageratum
<i>Ajuga reptans</i>	Ajuga
<i>Allium</i> spp.	Allium
<i>Allyssum</i> spp.	Allyssum
<i>Antirrhinum majus</i>	Snapdragon
<i>Aquilegia</i> spp.	Columbine
<i>Artemesia stoleriana</i>	Dusty Miller
<i>Asclepias</i> spp.	Milkweed
<i>Aster</i> spp.	Aster
<i>Aucuba</i> spp.	Aucuba
<i>Berberis</i> spp.	Barberry
<i>Betula</i> spp.	Birch
<i>Bougainvillea</i> spp.	Bougainvillea
<i>Buxus</i> spp.	Boxwood
<i>Camellia</i> spp.	Camellia
<i>Campanula carpatica</i>	Bellflower
<i>Canna indica</i>	Canna Lily
<i>Carex</i> spp.	Carex
<i>Chrysanthemum</i> spp.	Chrysanthemum, Daisy
** <i>Citrus</i> spp.	Citrus
<i>Coreopsis</i> spp.	Coreopsis
<i>Cornus</i> spp.	Dogwood
<i>Cortaderia selloana</i>	Pampas Grass
<i>Cotoneaster</i> spp.	Cotoneaster
<i>Crocus</i> spp.	Crocus
<i>Cryophytum crystallium</i>	Ice Plant
<i>Cytisus racemosus</i>	Sweet Broom
<i>Daucus carota</i>	Queen Anne's Lace
<i>Delphinium</i> spp.	Delphinium
<i>Dianthus barbatus</i>	Sweet William
<i>Eleagnus</i> spp.	Eleagnus
<i>Endymion</i> spp.	Endymion
<i>Escallonia fradesii</i>	Escallonia
<i>Euonymus</i> spp.	Euonymus
<i>Ficus</i> spp.	Fig
<i>Forsythia</i> spp.	Forsythia
<i>Fraxinus</i> spp.	Ash
<i>Gaillardia</i> spp.	Gaillardia

<i>Gardenia jasminoides</i>	Gardenia
<i>Gazania splendoens</i>	Gazania Gold Rush
<i>Gelsemium sempervirens</i>	Carolina Jessamine
<i>Geranium spp.</i>	Geranium
<i>Geum spp.</i>	Geum
<i>Gingko biloba</i>	Gingko
<i>Gladiolus x hortulanus</i>	Gladiolus
<i>Gleditsia triacanthos</i>	Honey Locust
<i>Hedera spp.</i>	English Ivy
<i>Hemerocallis spp.</i>	Daylily
<i>Hibiscus spp.</i>	Hibiscus
<i>Hosta lancifolia</i>	Hosta
<i>Hyacinthus spp.</i>	Hyacinth
<i>Hydrangea spp.</i>	Hydrangea
<i>Hypericum spp.</i>	St. John's Wort
<i>Ilex spp.</i>	Holly
<i>Illicium spp.</i>	Spicebush
<i>Impatiens spp.</i>	Impatiens
<i>Iris spp.</i>	Iris
<i>Jasmine spp.</i>	Jasmine
<i>Juniperus spp.</i>	Juniper
<i>Kalmia spp.</i>	Kalmia
<i>Lagerstroemia spp.</i>	Crepe Myrtle
<i>Leucothoe spp.</i>	Leucothoe
<i>Ligustrum spp.</i>	Privet
<i>Lilium spp.</i>	Lily
<i>Liquidambar spp.</i>	Sweetgum
<i>Liriodendron tulipifera</i>	Tulip Tree
<i>Liriope spp.</i>	Liriope
<i>Lonicera spp.</i>	Honeysuckle
<i>Lupinus spp.</i>	Lupines
<i>Lythrum spp.</i>	Loosestrife
<i>Magnolia spp.</i>	Magnolia
<i>**Malus spp.</i>	Crabapple, Apple
<i>Mesembryanthemum crystallinum</i>	Ice Plant
<i>Morea spp.</i>	Fortnight Lily
<i>Muscari armeniacum</i>	Muscari
<i>Myrica spp.</i>	Wax Myrtle
<i>Nandina domestica</i>	Bamboo
<i>Narcissus spp.</i>	Narcissus
<i>Nerium oleander</i>	Oleander
<i>Oenothera spp.</i>	Primrose
<i>Ophiopogon japonicus</i>	Mondo Grass
<i>Ornithogalum umbellatum</i>	Star of Bethlehem
<i>Osmanthus spp.</i>	Osmanthus
<i>Pachysandra spp.</i>	Pachysandra
<i>Pelargonium x hortorum</i>	Geranium
<i>Petunia spp.</i>	Petunia
<i>Phlox spp.</i>	Phlox
<i>Photinia spp.</i>	Photinia
<i>Physocarpus spp.</i>	Ninebark
<i>Physostegia spp.</i>	Physostegia
<i>Picea spp.</i>	Spruce

<i>Pieris japonica</i>	Japanese Andromeda
<i>Pinus</i> spp.	Pine
<i>Pittosporum</i> spp.	Pittosporum
<i>Podocarpus</i> spp.	Podocarpus
<i>Populus</i> spp.	Poplar
<i>Potentilla</i> spp.	Potentilla (Cinquefoil)
** <i>Prunus</i> spp.	Cherry
<i>Pseudotsuga menziesii</i>	Douglas Fir
<i>Pyracantha</i> spp.	Firethorn
** <i>Pyrus</i> spp.	Pear
<i>Quercus</i> spp.	Oak
<i>Raphiolepis</i> spp.	Indian Hawthorne
<i>Rhododendron</i> spp.	Rhododendron/Azalea
<i>Robinia</i> spp.	Locust
<i>Rosa</i> spp.	Rose
<i>Rumohra adiantiformis</i>	Leatherleaf Fern
<i>Salix</i> spp.	Willow
<i>Scilla</i> spp.	Scilla
<i>Sedum</i> spp.	Stone Crop
<i>Senecio doronicum</i>	Leopard's-bane
<i>Spiraea</i> spp.	Spiraea
<i>Stachys</i> spp.	Stachys
<i>Statice sinnata</i>	Annual Statice
<i>Symphoricarpos</i> spp.	Snowberry
<i>Syringa</i> spp.	Lilac
<i>Tagetes</i> spp.	Marigold
<i>Taxodium distichum</i>	Bald Cypress
<i>Taxus</i> spp.	Yew
<i>Ternstroemia gymanathera</i>	Cleyera
<i>Thuja</i> spp.	Arborvitae
<i>Tsuga</i> spp.	Hemlock
<i>Tulipa</i> spp.	Tulip
<i>Veronica</i> spp.	Veronica
<i>Viburnum</i> spp.	Viburnum
<i>Vinca</i> spp.	Periwinkle
<i>Viola x Wittrockiana</i>	Pansy
<i>Washingtonia robusta</i>	Mexican Fan Palm
<i>Weigela</i> spp.	Weigela
<i>Wisteria senensis</i>	Wisteria
<i>Yucca</i> spp.	Yucca
<i>Zinnia</i> spp.	Zinnia

** Do not apply to trees or plants that will bear harvestable fruit within 12 months, or illegal residues may result.

Pennant 5G may also be applied before or after applications of other herbicides registered for ornamentals (e.g., Goal®, Princep®, Ronstar®, Surflan®, etc.) to broaden the spectrum of control.

Turfgrass

Warm Season Grasses (Bermudagrass, Centipedegrass, St. Augustinegrass, Bahiagrass and Zoysiagrass)

Apply Pennant 5G before weeds emerge. Since soil moisture is necessary to activate Pennant 5G, irrigate with 1/2 inch of water if rainfall does not occur within 7 days after treatment. (See Precautions below).

Weeds Controlled

<u>Scientific Name</u>	<u>Common Name</u>	<u>Rate of Pennant 5G</u>
<i>Cyperus compressus</i>	Annual sedge	80 lbs./A
<i>Cyperus esculentus</i>	Yellow nutsedge	80 lbs./A
<i>Digitaria ischaemum</i>	Smooth crabgrass	80 lbs./A
<i>Digitaria sanguinalis</i>	Large crabgrass	80 lbs./A
<i>Leptochloa fascicularis</i>	Bearded sprangletop	40-80 lbs./A
<i>Leptochloa uninervia</i>	Mexican sprangletop	40-80 lbs./A
<i>Poa annua</i>	Annual Bluegrass	40-80 lbs./A

Note: To minimize potential turf injury, do not apply more than once per year.

Commercial St. Augustinegrass Sod Production

Apply Pennant before weeds emerge. Since soil moisture is necessary to activate Pennant 5G, irrigate with 1/2 inch of water if rainfall does not occur within 7 days after treatment (See Precautions below).

Weeds Controlled

<u>Scientific Name</u>	<u>Common Name</u>	<u>Rate of Pennant 5G</u>
<i>Cyperus compressus</i>	Annual sedge	80 lbs./A
<i>Cyperus esculentus</i>	Yellow nutsedge	80 lbs./A
<i>Digitaria ischaemum</i>	Smooth crabgrass	80 lbs./A
<i>Digitaria sanguinalis</i>	Large crabgrass	80 lbs./A
<i>Leptochloa fascicularis</i>	Bearded sprangletop	40-80 lbs./A
<i>Leptochloa uninervia</i>	Mexican sprangletop	40-80 lbs./A
<i>Poa annua</i>	Annual Bluegrass	40-80 lbs./A

Notes: (1) Do not apply more than once every six weeks. (2) Do not apply more than a total of 160 lbs./A/year.

Precautions for all uses on turf: Temporary slowing of growth and yellowing may occur following application. To avoid turf

injury, 1) use only on turfgrass not under stress from infestations of insects, nematodes, or diseases; 2) do not use on golf greens, tees, or aprons; 3) do not apply over the rooting area of trees or ornamentals not listed on this label; 4) do not seed or overseed with desirable turfgrass 4 months before or 6 months after treatment and 5) do not apply this product to newly seeded grasses until they have overwintered and have a well-developed rhizome system. 6) Weed control may be reduced when Pennant 5G is applied to turf which has accumulated thatch sufficient enough to interfere with the herbicide's movement to the soil surface.

Note: To avoid possible illegal residues, do not graze or feed turf clippings to animals.

Storage and Disposal

Pesticide

Store in a dry place. Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment. Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container

Completely empty bag into application equipment. 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 from burning bags.

For minor spills, follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372 day or night.

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Harmful if absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing dust.

Statement of Practical Treatment

If in eyes: Flush with plenty of water. Call a physician if irritation persists.

If on skin: Wash with plenty of soap and water. Get medical attention.

If inhaled: Remove victim to fresh air.

Personal Protective Equipment:

Applicators and other handlers must wear:

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

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.

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.

Environmental Hazards

Cover or incorporate granules that are spilled during loading or are visible on soil surface in turn areas. Do not contaminate water when disposing of equipment wash waters. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark.

Ground Water and Surface Water Advisory

Metolachlor has been identified in limited sampling of groundwater and there is the possibility that it may leach through the soil to ground water, especially where soils are coarse and ground water is near the surface. Following application and during rainfall events that cause runoff, metolachlor may reach surface water bodies including streams, rivers, and reservoirs.

Care must be taken when using this product to prevent spills or improper disposal of excess pesticide granules.

Goal® trademark of Rohm and Haas Company for oxyfluorfen

Pennant® trademark of Ciba-Geigy Corporation for metolachlor
U.S. Patent No. 4,022,611

Princep® trademark of Ciba-Geigy Corporation for simazine

Ronstar® trademark of Rhone-Poulenc for oxidiazon

Surflan® trademark of Elanco Products Company for oryzalin

©1993 Ciba-Geigy Corporation

Ciba Plant Protection
Turf and Ornamental Products
Ciba-Geigy Corporation
Greensboro, NC 27419

	December 11, 1985
Revised	June 15, 1987
Revised	August 8, 1988
	Add Farmland Est. No.
Revised	November 15, 1989
	Containerized plants
Revised	September 12, 1991
	Additional ornamentals, containerized plants, and turf.
Revised	March 20, 1992
	all turf

Revised

August, 1993 - WPS

CGA 82L2F 083 - 40 lb. bag (printed)
CGA 82L3F 082 - PSL (40 lb.)
CGA 82L6E 083 - 10 lb. PSL
CGA 82L7D 083 - 40 lb. 5905-IA-1

[GANNONC.LABELP]PEN5WP40 - 8/5/93