

34704-823

07-10-2009

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Mr. Scott Baker
Loveland Products, Inc.
P.O. Box 1286
Greeley, Colorado 80632-1286

JUL 10 2009

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Registrant:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated April 16, 2009 for:

EPA Registration 34704-823

Oryzalin Coated Granules

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and 98-10 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Banza Djapao of my staff at 703-305-7269.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

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United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 34704-823	2. EPA Product Manager PM# 23	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Oryzalin Coated Granules	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. <u>NOTIFICATION</u> Product Name <u>JUL 10 2009</u>	
5. Name and Address of Applicant (Include ZIP Code) Loveland Products, Inc. P.O. Box 1286 Greeley, Colorado 80632-1286 <input type="checkbox"/> Check if this is a new address		

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 of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If "Yes" Unit Packaging wgt. No. per container		<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Package wgt No. per container			
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 50 lb.		5. Location of Label Directions <input checked="" type="checkbox"/> attached to bag	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input checked="" type="checkbox"/> Other <u>Pressure Sensitive</u>		

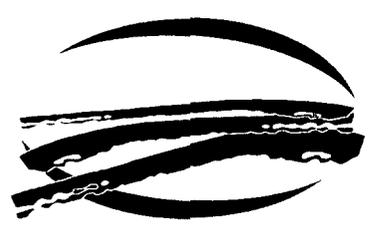
Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Scott Baker	Title Registration Manager	Telephone No. (Include Area Code) 970-534-3403	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 	3. Title Registration Manager		
4. Typed Name Scott Baker	5. Date April 16, 2009		

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NOTIFICATION

JUL 10 2009



Oryzalin Coated Granules

A selective preemergence surface-applied herbicide for control of annual grasses and many broadleaf weeds in:

- Landscape Ornamentals
- Container Grown Ornamentals
- Field Grown Ornamentals
- Drainage Areas Under Shadehouse Benches
- Ornamental Bulbs
- Ground Covers/Perennials
- Christmas Tree Plantations
- Noncropland and Industrial Sites
- Non-bearing Fruit and Nut Trees and Non-bearing Vineyards
- Established Warm Season Turf (including Bahiagrass, Bermudagrass, Buffalograss, Centipedegrass, St. Augustinegrass and Zoysiagrass)
- Tall Fescue (warm season areas)

ACTIVE INGREDIENT:

Oryzalin: 3,5 dinitro-*N,N*-dipropylsulfanilamide 1.67%

INERT INGREDIENTS 98.33%

TOTAL 100.00%

**KEEP OUT OF REACH OF CHILDREN
CAUTION—PRECAUCION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. FORMULATED FOR
(If you do not understand the label, find someone to explain it to you in detail.)

EPA REG. NO. 34704-823
EPA EST. NO. 44616-MO-002
NET WEIGHT 50 LBS. (22.68 KG)

IHT 110303 V3D 04/09


Loveland
 PRODUCTS INC.
 P.O. BOX 1286
 GREELEY, COLORADO 80632-1286

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Avoid contact with skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

Personal Protective Equipment (PPE)

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on the EPA chemical-resistance category selection chart.

Applicators and other handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, shoes plus socks and 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.

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.

FIRST AID

If in eyes:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 –20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
If inhaled:	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL:

1-866-944-8565.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. 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 when disposing of equipment washwaters or rinsate. Cover or incorporate spills.

Agricultural Chemical: Do not ship or store with food, feed, drugs or clothing.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

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 Protections Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, shoes plus socks and protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS

These requirements 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 in greenhouses. Do not allow children or pets on treated areas until granules are washed to the soil surface and the grass is dry.

GENERAL INFORMATION

This product is a preemergence herbicide for control of certain annual grasses and broadleaf weeds in container and landscape ornamentals, nursery stock,

ground covers, established flowers, ornamental bulbs, non-bearing fruit and nut trees and non-bearing vineyards, Christmas tree plantations, non-cropland and established tall fescue and warm season turf (including bahiagrass, bermudagrass, buffalograss, centipedegrass, St. Augustinegrass, and zoysiagrass). Apply this product prior to germination of target weeds or immediately after cultivation. Length of weed control will vary with rate of this product applied, weed population, potting media or soil conditions, temperature, watering regime, and other factors. Following application, user should monitor and observe level of weed control over time to determine when additional applications may be needed. Repeat applications at 200 pounds per acre and higher should not be made sooner than 90 days after a previous application of this product. Do not apply over 900 pounds per acre total of this product within a 12 month period. Do not graze or feed forage from treated fields or orchards to livestock. Aerial application is prohibited except for agricultural uses in California.

GENERAL USE PRECAUTIONS

This product does not control established weeds. Existing weeds should be controlled by cultivation or with postemergence herbicides. Weed residues, prunings and trash should be removed or thoroughly mixed into soil prior to treatment. Soil should be in good condition and free of clods at the time of application. A single rainfall or sprinkler irrigation of 0.5 inches or more, or flood irrigation is required to activate this product. If rainfall or irrigation has not occurred within 21 days of application and tillage is possible, this product may be activated using cultivation equipment capable of uniformly mixing the herbicide into the upper 1-2 inches of soil. Failure to activate this product may result in erratic weed control. Do not apply when wind conditions favor drift of this product's granules from the target area.

Users who wish to use this product on plant species not recommended on this label may determine the suitability for such uses by treating a small number of such plants at a recommended rate. Prior to treatment of larger areas, the treated plants should be observed for any sign of herbicidal injury during 30 to 60 days of normal growing conditions to determine if the treatment is noninjurious to the target plant species. **The user assumes responsibility for any plant damage or other liability resulting from use of this product on plant species not recommended on this label.**

APPLICATION DIRECTIONS

Apply this product using a drop or rotary-type spreader designed to apply granular herbicides or insecticides. Calibrate application equipment prior to use according to manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly. Do not use spreaders that apply material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or crop injury may occur. More uniform application may be achieved by spreading half of the required amount of product over the area and then applying the remaining half in swaths at right angles to the first.

APPLICATION TECHNIQUES FOR APPLYING THIS PRODUCT

- When using a drop-type spreader, a splash board mounted under the hopper will provide more even granule distribution.
- A chain fastened to the side of the spreader and allowed to drag on the soil surface can be used to mark the edge of the treated swath and help prevent skips or overlaps.
- For treating smaller areas or rows of nursery stock or ornamental beds, a

handheld or push-type rotary applicator such as a whirlybird or cyclone unit is recommended. For hand held units, walk and turn the crank at a constant rate of speed.

- A shaker-type applicator made from a small container with holes punched in the bottom is recommended for small, difficult to treat areas. Carefully measure the amount of product needed to avoid over-application.

Established† Container Grown Ornamentals, Landscape Ornamentals, Nursery Stock, Ground Covers, Flowers, Ornamental Bulbs, Non-bearing Fruit and Nut Trees and Non-bearing Vineyards, Christmas Tree Plantations, and Non-cropland

This product is recommended as a preemergence treatment for control of certain annual grasses and broadleaf weeds in container grown ornamentals, landscape ornamentals, nursery stock, ground covers, established flowers, ornamental bulbs, non-bearing fruit and nut trees and non-bearing vineyards, Christmas tree plantations, and non-cropland.

Apply this product prior to germination of target weeds, or immediately after cultivation.

Note: Refer to the "General Information" section of this label for general use precautions and information on application.

SPECIAL USE PRECAUTIONS

To avoid possible plant injury, do not apply this product to:

- plants or areas in greenhouses or other enclosed structures.
- nursery seedbeds or forest or Christmas tree seedling transplant beds.
- unrooted liners or cuttings that have been planted in pots for the first time.
- pots less than four inches wide.
- ground covers until they are established and well rooted.
- ornamental plantings where the likelihood of runoff onto lawn areas containing dichondra or cool season turfgrass species exists.
- Do not apply this product to the following plant species or injury may occur:
 - Begonia* spp. (begonia)
 - Coleus hybridus* (coleus)
 - Deutzia gracilis* (slender deutzia)
 - Pseudotsuga menziesii* (Douglas-fir)
 - Thuja occidentalis* "Techny" (Techny arborvitae)
 - Tsuga canadensis* (Eastern hemlock)
- **Ice Plant:** When establishing unrooted ice plant (*Mesembryanthemum crystallinum* and *Carpobrotus edulis*) on coarse soils, do not exceed the 200 lb/acre rate of this product or crop injury may occur. After the ice plant is well established, a second application may be made.

† **Definition of established plantings:** Apply only to established plantings. Established plants are defined as those that have been transplanted into their final growing location for a sufficient period of time to allow the soil to be firmly settled around the roots from packing and rainfall or irrigation. Do not apply to seedbeds or seedling transplant beds.

Repeat applications should not be made sooner than 60 days after a previous application of this product. Do not apply over 900 pounds per acre total of this product within a 12 month period.

Unlisted plant species: Users who wish to use this product on plant species not recommended on this label may determine the suitability for such uses by treat-

ing a small number of such plants at a recommended rate. Prior to treatment of larger areas, the treated plants should be observed for any sign of herbicidal injury during 30 to 60 days of normal growing conditions to determine if the treatment is non-injurious to the target plant species. **The user assumes responsibility for any plant damage or other liability resulting from the use of this product on plant species not recommended on this label.**

WEEDS CONTROLLED OR SUPPRESSED BY THIS PRODUCT

Weeds controlled when this product is applied at a rate of 120-240 pounds per acre (2.75-5.50 pounds per 1000 sq. ft.)

Annual Grasses

Common Name

- barley, little
- barnyardgrass
- bluegrass, annual
- crabgrass
- crowfootgrass
- cupgrass, southwestern
- foxtail
- goosegrass
- johnsongrass (seedling only)
- jungrlerice
- lovegrass, Mexican
- lovegrass, orcutt
- oat, wild
- panicum, browntop
- panicum, fall
- panicum, Texas
- ryegrass, Italian
- sandbur, field
- signalgrass
- sprangletop, red
- witchgrass

Scientific Name

- Hordeum pusillum*
- Echinochloa crus-galli*
- Poa annua*
- Digitaria* spp.
- Dactyloctenium aegyptium*
- Eriochloa gracilis*
- Setaria* spp.
- Eleusine indica*
- Sorghum halepense*
- Echinochloa colonum*
- Eragrostis mexicana*
- Eragrostis orcuttiana*
- Avena fatua*
- Panicum fasciculatum*
- Panicum dichotomiflorum*
- Panicum texanum*
- Lolium multiflorum*
- Cenchrus incertus*
- Brachiaria* spp.
- Leptochloa filiformis*
- Panicum capillare*

Broadleaf Weeds

Common Name

- bittercress
- carpetweed
- chickweed, common
- fiddleneck, coast
- filaree, redstem
- filaree, whitestem
- groundsel, common
- henbit
- knotweed, prostrate
- lambsquarters, common
- pigweed
- puncturevine
- purslane, common
- pusley, Florida
- rocket, London

Scientific Name

- Cardamine oligosperma*
- Mollugo verticillata*
- Stellaria media*
- Amsinckia intermedia*
- Erodium cicutarium*
- Erodium moschatum*
- Senecio vulgaris*
- Lamium amplexicaule*
- Polygonum aviculare*
- Chenopodium album*
- Amaranthus* spp.
- Tribulus terrestris*
- Portulaca oleracea*
- Richardia scabra*
- Sisymbrium irio*

- rockpurslane, desert
- shepherdspurse
- spurge, prostrate
- woodsorrel, yellow

- Calandrinia ciliata*
- Capsella bursa-pastoris*
- Euphorbia humistrata*
- Oxalis stricta*

In addition to the weeds controlled, the following weeds will be partially controlled or suppressed at 120 - 240 pounds per acre (2.75 to 5.50 pounds per 1000 sq ft).

Common Name

- horseweed
- ladysthumb
- lettuce, prickly
- mallow, common
- milkweed, climbing
- morningglory
- mustard, black
- mustard, wild
- nightshade, black
- ragweed, common
- smartweed
- sowthistle, annual
- spurge, spotted
- teaweed (prickly sida)
- velvetleaf
- wheat, volunteer

Scientific Name

- Conyza canadensis*
- Polygonum persicaria*
- Lactuca serriola*
- Malva neglecta*
- Sarcostemma cynanchoides*
- Ipomoea* spp.
- Brassica nigra*
- Brassica kaber*
- Solanum nigrum*
- Ambrosia artemisiifolia*
- Polygonum pennsylvanicum*
- Sonchus oleraceus*
- Euphorbia maculata*
- Sida spinosa*
- Abutilon theophrasti*
- Triticum* spp.

This Product May Be Used On The Following Established Plant Species: (Note limitations on recommended treatment methods.)

Trees

Method:	Recommended	Treatment
Scientific Name/Common Name	C = Container Grown	F = Field Grown
<i>Abies balsamea</i> Balsam fir		F
<i>Abies concolor</i> White fir		F
<i>Abies fraseri</i> Fraser fir		F
<i>Abies grandis</i> Grand fir		F
<i>Abies lasiocarpa</i> Alpine fir		F
<i>Abies veitchii</i> Veitch fir		F
<i>Abutilon hybridum</i> Albus flowering maple		F
Luteus flowering maple		F
Roseus flowering maple		F
Tangerine flowering maple		F
Vesuvius red flowering maple		F

Recommended Treatment Method:

<u>Scientific Name/Common Name</u>	C = Container Grown F = Field Grown
<i>Acer</i> spp. maple	F
<i>Arecastrum romanzoffianum</i> Queen palm	F
<i>Betula papyrifera</i> Paper birch	F
<i>Betula nigra</i> River birch	F
<i>Betula pendula</i> White birch	F
<i>Bucida buceras</i> Black olive	F
<i>Ceratonia siliqua</i> Carob	F
<i>Cercidium floridum</i> Blue palo verde	F
<i>Cercis canadensis</i> Redbud	C, F
<i>Chamaecyparis lawsoniana</i> Lawson falsecypress	F
<i>Chamaecyparis obtusa</i> spp. Filicoides-fernspray cypress	F
Gracilis-slender Hinoki cypress	F
<i>Chamaecyparis pisifera</i> Sawara-false cypress	F
Squarrosa-moss cypress	F
<i>Chamaedorea cataractarum</i> Cat palm	F
<i>Chamaedorea costaricana</i> Palm	F
<i>Chamaedorea elegans</i> Parlor palm	F
<i>Cornus florida</i> Flowering dogwood	F
<i>Crupaniopsis anacardioides</i> Carrot wood	F
<i>Cryptomeria japonica</i> Japanese cryptomeria	C, F
<i>Cupressus glabra</i> Arizona cypress	C, F
<i>Cupressus sempervirens</i> Italian cypress	C, F
<i>Elaeagnus angustifolia</i> Russian olive	C, F
<i>Eucalyptus cinerea</i> Mealy eucalyptus	F
Silver dollar eucalyptus	F
<i>Eucalyptus camaldulensis</i> Red gum eucalyptus	F
<i>Eucalyptus nicholii</i> Narrow-leaved eucalyptus	F

Recommended Treatment Method:

<u>Scientific Name/Common Name</u>	C = Container Grown F = Field Grown
<i>Eucalyptus sideroxylon</i> Red ironbark eucalyptus	F
<i>Ficus benjamina</i> Ficus	F
<i>Fraxinus</i> spp. Ash	F
<i>Ginkgo biloba</i> Maidenhair tree	C, F
<i>Gleditsia triacanthos</i> Honey locust	F
<i>Heteromeles arbutiflora</i> Toyon	F
<i>Juniperus virginiana</i> Eastern redcedar	F
<i>Kalmia latifolia</i> Mountain laurel	F
<i>Koelreuteria paniculata</i> goldenrain tree	F
<i>Liquidambar styraciflua</i> American sweet gum	C, F
<i>Magnolia grandiflora</i> Southern magnolia	F
<i>Malus</i> spp. Crabapple	F
<i>Morus alba</i> White mulberry	F
<i>Olea euripaea</i> Olive	F
<i>Picea abies</i> Norway spruce	F
<i>Picea englemanni</i> Englemann spruce	F
<i>Picea glauca</i> Conica-dwarf Alberta spruce	F
White spruce	F
<i>Picea mariana</i> Black spruce	F
<i>Picea pungens</i> spp. Glauca-Colorado blue spruce	F
Hoopsii-Hoop's blue spruce	F
Koster-Koster blue spruce	F
<i>Pinus</i> spp. Pine	C, F
<i>Platanus occidentalis</i> American sycamore	F
<i>Platanus racemosa</i> California sycamore	F
<i>Podocarpus</i> spp. Podocarpus	F
<i>Populus deltoides</i> Cottonwood	F

Recommended Treatment Method:

<u>Scientific Name/Common Name</u>	C = Container Grown F = Field Grown
<i>Prunus caroliniana</i> Carolina laurelcherry	F
<i>Prunus laurocerasus</i> English laurelcherry	F
<i>Prunus mahaleb</i> Mahaleb cherry	F
<i>Prunus yedoensis</i> Yoshino flowering cherry	F
<i>Quercus</i> spp. Oak	C, F
<i>Salix babylonica</i> Babylon weeping willow	F
<i>Schinus molle</i> California pepper tree	F
<i>Sequoiadendron giganteum</i> Giant sequoia	F
<i>Sequoia sempervirens</i> Coast redwood	F
<i>Swietenia mahogani</i> Mahogany	F
<i>Tabebuia caraiba</i> Yellow tab	F
<i>Tilia cordata</i> Littleleaf linden	C, F
<i>Thuja plicata</i> Western redcedar	F
<i>Ulmus parvifolia</i> Chinese Elm	F
<i>Umbellularia californica</i> California laurel	F
<i>Washingtonia robusta</i> Mexican fan palm	F

Ornamental Shrubs

<u>Scientific Name/Common Name</u>	Recommended Treatment C = Container Grown F = Field Grown
<i>Abelia grandiflora</i> Glossy abelia	F
<i>Acacia redolens</i> Prostrate acacia	F
<i>Agave americana</i> Century plant	F
<i>Agave maculata</i> Agave	F
<i>Arctostaphylos stanfordiana</i> Stanford manzanita	F

Recommended Treatment Method:

<u>Scientific Name/Common Name</u>	C = Container Grown F = Field Grown
<i>Astilbe chinensis</i> False spirea	C, F
<i>Baccharis pilularis</i> Coyotebush	F
<i>Berberis thunbergii</i> Atropurea-Redleaf Japanese barberry	C, F
<i>Berberis thunbergii</i> Aurea golden Japanese barberry	C, F
<i>Berberis thunbergii</i> Crimson pygmy barberry	C, F
<i>Bougainvillea</i> spp. Barbara Karst	F
<i>Bougainvillea</i> spp. California Gold	F
<i>Bougainvillea</i> spp. Scarlet O'Hara	F
<i>Bougainvillea</i> spp. Texas Dawn	F
<i>Buxus microphylla</i> Japonica-Japanese boxwood	C, F
<i>Buxus microphylla</i> Littleleaf boxwood	F
<i>Buxus sempervirens</i> Common boxwood	C, F
<i>Callistemon citrinus</i> Lemon bottlebrush	C, F
<i>Ceanothus</i> spp. Wild lilac	C, F
<i>Chamaecyparis obtusa</i> spp. Kosteri cypress	F
<i>Chamaecyparis obtusa</i> spp. Nana-dwarf Hinoki cypress	F
<i>Chamaecyparis obtusa</i> spp. Torulosa cypress	F
<i>Chamaecyparis pisifera</i> Filiifera-thread cypress	F
<i>Chamaecyparis pisifera</i> Squarrosa minima-dwarf moss cypress	F
<i>Chrysalidocarpus lutescens</i> Areca palm	F
<i>Cleyera japonica</i> Japanese cleyera	C, F
<i>Cotoneaster adpressus</i> Praecox-early cotoneaster	F
<i>Cotoneaster apiculatus</i> Cranberry cotoneaster	C, F
<i>Cotoneaster buxifolius</i> Brightbead cotoneaster	F
<i>Cotoneaster congestus</i> Pyrenees cotoneaster	F
<i>Cotoneaster dammeri</i> Bearberry cotoneaster	C, F
<i>Cotoneaster himalayan</i> Himalayan cotoneaster	F
<i>Cotoneaster horizontalis</i> Rock cotoneaster	C, F
<i>Cotoneaster lacteus</i> Parney cotoneaster	C, F
<i>Cotoneaster microphyllus</i> Rockspray cotoneaster	F

Recommended Treatment Method:

<u>Scientific Name/Common Name</u>	C = Container Grown F = Field Grown
<i>Cornus alba</i>	
Sibirica-Siberian dogwood	F
<i>Cornus florida</i>	
Flowering dogwood	F
<i>Cornus kousa</i>	
Kousa dogwood	C, F
<i>Cornus stolonifera</i>	
Flaviramea-yellowtwig dogwood	F
<i>Cryptomeria japonica</i>	
Japanese cryptomeria	C, F
<i>Cytisus praecox</i>	
Holandia-warminster broom	F
<i>Cytisus scoparius</i>	
Lena-Scotch broom	F
<i>Dasyllirion wheeleri</i>	
Desert spoon sotol	F
<i>Deutzia crenata</i>	
Nakiana dwarf deutzia	F
<i>Dodonea viscosa</i>	
Hopseed bush	F
<i>Escallonia exoniensis</i>	
Escallonia	C, F
<i>Euonymus alata</i>	
Winged euonymus	F
<i>Euonymus fortunei</i>	
Canadale gold euonymus	C, F
Emerald'n gold euonymus	C, F
Stringybark euonymus	C, F
Wintercreeper	C, F
<i>Euonymus japonica</i>	
Evergreen euonymus	C, F
Silver king euonymus	F
<i>Euonymus kiautschovica</i>	
Spreading euonymus	F
<i>Fatshedera lizei</i>	
Fatshedera	C, F
<i>Forsythia intermedia</i>	
Forsythia	F
<i>Gardenia jasminoides</i>	
Gardenia	C, F
<i>Genista pilosa</i>	
Woadwaxen	F
<i>Hibiscus rosa-sinensis</i>	
Chinese hibiscus	F
Ross Estey hibiscus	F
<i>Hibiscus syriacus</i>	
Rose of Sharon, Red Bird	F
Rose of Sharon, Red Heart	F
Rose of Sharon, Woodbridge	F
<i>Hypericum</i> spp.	
St. Johnswort	F

Recommended Treatment Method:

<u>Scientific Name/Common Name</u>	C = Container Grown F = Field Grown
<i>Ilex aquifolium</i>	
Balkans holly	F
English holly	F
Gold coast holly	F
<i>Ilex aquipernyi</i>	
San Jose holly	C, F
<i>Ilex cornuta</i>	
Chinese holly	C, F
Dwarf burford holly	C, F
<i>Ilex crenata</i>	
Convexa holly	C, F
Compacta-dwarf Japanese holly	C, F
Helleri-Heller's Japanese holly	C, F
Japanese holly	C, F
<i>Ilex glabra</i>	
Nordica-inkberry holly	F
<i>Ilex meserveae</i>	
Blue girl holly	F
Blue boy holly	F
Ebony magic holly	F
<i>Ilex vomitoria</i>	
Nana-dwarf yaupon holly	C, F
Pendula-weeping yaupon holly	C, F
Yaupon holly	C, F
<i>Juniperus</i> spp.	
Juniper	C, F
<i>Justicia brandegeana</i>	
Shrimp plant	C, F
<i>Justicia spicigera</i>	
Mexican honeysuckle	F
<i>Lagerstroemia indica</i>	
Crape myrtle	C, F
<i>Leucothoe axillaris</i>	
Coast leucothoe	F
<i>Leucothoe fontanesiana</i>	
Drooping leucothoe	F
<i>Ligustrum amurense</i>	
Amur privet	C, F
<i>Ligustrum japonicum</i>	
Japanese privet	C, F
Yellow tip ligustrum	C, F
<i>Ligustrum texanum</i>	
Wax leaf privet	F
Howardi privet	F
<i>Ligustrum lucidum</i>	
Glossy privet	C, F
<i>Ligustrum ovalifolium</i>	
California privet	F
<i>Ligustrum vicaryi</i>	
Vicary golden privet	C, F

Recommended Treatment Method:

<u>Scientific Name/Common Name</u>	C = Container Grown F = Field Grown
<i>Livistona chinensis</i>	F
Chinese fountain palm	
<i>Lonicera fragrantissima</i>	F
Winter honeysuckle	
<i>Lonicera periclymenum</i>	F
Flowering woodbine	
Serotina woodbine	F
<i>Lonicera sempervirens</i>	F
Trumpet honeysuckle	
<i>Mahonia aquifolium</i>	F
Oregon grape	
<i>Myoporum parvifolium</i>	F
Prostrate myoporum	
<i>Myrtus communis</i>	C, F
True myrtle	
<i>Nandina domestica</i>	C, F
Compacta-dwarf heavenly bamboo	
Harbour-dwarf heavenly bamboo	C, F
Heavenly bamboo	C, F
Nana compacta-heavenly bamboo	C, F
Nana purpurea-heavenly bamboo	C, F
Woods-dwarf heavenly bamboo	C, F
<i>Nerium oleander</i>	C, F
Hardy red oleander	
Oleander	C, F
Ruby lace oleander	C, F
<i>Osmanthus heterophyllus</i>	F
Holly-leaf osmanthus	
<i>Pachysandra terminalis</i>	F
Japanese spurge	
<i>Philadelphus</i> spp.	C, F
Mockorange	
<i>Phoenix roebelenii</i>	F
Pygmy date palm	
<i>Photinia fraseri</i>	C, F
Fraser's photinia	
<i>Picea abies</i>	F
Repens-spreading Norway spruce	
Pendula-weeping Norway spruce	F
<i>Pieris japonica</i>	C, F
Andromeda	
Lily-of-the-valley	F
Snowdrift	F
Temple bells lily-of-the-valley	F
Valley rose lily-of-the-valley	F
<i>Pittosporum</i> spp.	C, F
Pittosporum	
<i>Platycladus orientalis</i>	C, F
Oriental arborvitae	
<i>Plumbago ariculata</i>	F
Blue cape plumbago	

Recommended Treatment Method:

<u>Scientific Name/Common Name</u>	C = Container Grown F = Field Grown
<i>Podocarpus macrophyllus</i>	C, F
Yewpine	
<i>Potentilla fragiformis</i>	F
Cinquefoil	
<i>Potentilla fruticosa</i>	C, F
Cinquefoil	
<i>Protea neriifolia</i>	F
Protea	
<i>Pyracantha coccinea</i>	C, F
Scarlet forethorn	
<i>Pyracantha fortuneana</i>	C, F
Lalendel Monrovia pyracantha	
Monon pyracantha	C, F
Red elf hybrid pyracantha	C, F
Rutgers hybrid pyracantha	C, F
Santa Cruz pyracantha	C, F
Victory pyracantha	C, F
<i>Pyracantha skoidzumi</i>	C, F
Formosa firethorn	
<i>Raphiolepis indica</i>	F
Enchantress-Moness raphiolepis	
India hawthorn	C, F
Springtime-Monme raphiolepis	F
<i>Raphiolepis ovata</i>	F
Round-leaf raphiolepis	
<i>Rhipsalidopsis gaetneri</i>	C, F
Easter cactus	
<i>Rhododendron</i> spp.	C, F
Azalea	
Rhododendron	C, F
<i>Rhus lancea</i>	C, F
African sumac	
<i>Rosa rugosa</i>	F
Ramanas rose	
<i>Rosmarinus officinalis</i>	F
Rosemary	
<i>Spiraea vanhouttei</i>	F
Bridal wreath	
<i>Syringa vulgaris</i>	F
Common lilac	
<i>Syzygium paniculata</i>	C, F
Brush cherry	
<i>Taxus cuspidata</i>	F
Japanese yew	
<i>Taxus media</i>	F
Yew	

Recommended Treatment Method:		Ground Covers	
<u>Scientific Name/Common Name</u>	<u>C = Container Grown</u> <u>F = Field Grown</u>	<u>Scientific Name/Common Name</u>	<u>Recommended Treatment</u>
<i>Thuja occidentalis</i>		Method:	
American arborvitae	F	Scientific Name/Common Name	C = Container Grown F = Field Grown
Emerald arborvitae	F	<i>Agapanthus africanus</i>	
Globosa-globe arborvitae	F	Lily-of-the-Nile	C, F
Little Giant-dwarf arborvitae	F	<i>Ajuga</i> spp.	
Nigra-dark American arborvitae	F	Carpet bugle	F
Pyramidalis arborvitae	F	<i>Arctotheca calendula</i>	
Rheingold arborvitae	F	Cape weed	F
Woodwardii arborvitae	F	<i>Campanula elatines</i>	
<i>Thuja orientalis</i>		Bellflower	C, F
Aurea nana-dwarf golden arborvitae	F	<i>Carpobrotus edulis</i>	
Minima glauca-dwarf arborvitae	F	Largeleaf iceplant	F
<i>Trachelospermum jasminoides</i>		<i>Clytostoma callistegioides</i>	
Chinese star jasmine	F	Violet trumpet vine	C, F
<i>Veitchia merilli</i>		<i>Cortaderia selloana</i>	
Christmas palm	F	Pampas grass	F
<i>Viburnum davidii</i>		<i>Delosperma alba</i>	
David viburnum	F	White iceplant	F
<i>Viburnum japonicum</i>		<i>Drosanthemum floribundum</i>	
Viburnum	F	Trailing rosea iceplant	F
<i>Viburnum opulus sterile</i>		<i>Festuca ovina</i>	
Eastern snowball viburnum	F	Blue fescue	F
<i>Viburnum plicatum tomentosum</i>		<i>Gazania</i> spp.	
Doublefile viburnum	F	Gazania	F
<i>Viburnum x pragense</i>		<i>Hedera canariensis</i>	
Virburnum	F	Algerian ivy	F
<i>Viburnum setigerum</i>		<i>Hedera helix</i>	
Tea viburnum	F	English ivy	F
<i>Viburnum suspensum</i>		<i>Hemerocallis</i> spp.	
Sandankwa viburnum	F	Day lily	C, F
<i>Viburnum tinus</i>		<i>Hosta</i> spp.	
Compactum-spring bouquet viburnum	F	Plantain lily	C, F
Laurastinus viburnum	C, F	<i>Hypericum</i> spp.	
<i>Viburnum trilobum</i>		St. Johnswort	F
Compactum-dwarf cranberry bush	F	<i>Lampranthus spectabilis</i>	
<i>Weigela florida</i>		Red trailing iceplant	F
Java red weigela	F	<i>Liriope gigantea</i>	
Bristol ruby weigela	F	White lily turf	F
Minuet weigela	F	<i>Liriope muscari</i>	
<i>Xylosma congestum</i>		Big blue lily turf	C, F
Xylosma	F	Lilac beauty lily turf	C, F
<i>Yucca elate</i>		Majestic lily turf	C, F
Soaptree yucca	C, F	Monroe white lily turf	C, F
<i>Yucca recurvifolia</i>		Silvery sunproof lily turf	C, F
Pendulous yucca	F	Variegated liriope lily turf	C, F
		<i>Lonicera japonica</i>	
		Japanese honeysuckle	F
		<i>Mesembryanthemum crystallinum</i>	
		Ice plant	F

Recommended Treatment Method:

<u>Scientific Name/Common Name</u>	C = Container Grown F = Field Grown
<i>Ophiopogon japonicus</i> Mondo grass	F
<i>Osteospermum fruticosum</i> Trailing African daisy	F
<i>Sedum brevifolium</i> Stonecrop	F
<i>Trachelospermum jasminoides</i> Chinese star jasmine	F
<i>Vinca major</i> Bigleaf periwinkle	F
<i>Vinca minor</i> Dwarf periwinkle	F

Established Flowers

<u>Scientific Name/Common Name</u>	Recommended C = Container Grown F = Field Grown	Treatment
<i>Achillea</i> spp. Yarrow	F	
<i>Antirrhinum majus</i> Snapdragon	F	
<i>Caladium bicolor</i> Fancy-leaved caladium	F	
<i>Chrysanthemum coccineum</i> Painted daisy	F	
<i>Chrysanthemum maximum</i> Shasta daisy	F	
<i>Chrysanthemum morifolium</i> Chrysanthemum	F	
<i>Coreopsis lanceolata</i> Coreopsis	F	
<i>Dianthus barbatus</i> Sweet william	F	
<i>Dicentra spectabilis</i> Bleeding heart	C, F	
<i>Dimorphotheca</i> spp. Cape marigold	F	
<i>Echinacea purpurea</i> Purple coneflower	F	
<i>Geum quellyon</i> Geum	F	
<i>Gladiolus hortulanus</i> Gladiolus	F	
<i>Gypsophila paniculata</i> Baby's breath	F	
<i>Impatiens wallerana</i> Impatiens	F	
<i>Iris</i> spp. Bearded iris	F	
<i>Liatris spicata</i> Blazing star	C, F	

Recommended Treatment Method:

<u>Scientific Name/Common Name</u>	C = Container Grown F = Field Grown
<i>Pelargonium hortorum</i> Geranium	F
<i>Petunia</i> spp. Petunia	F
<i>Portulaca grandiflora</i> Rose moss	F
<i>Ranunculus asiaticus</i> Persian ranunculus	F
<i>Rosa</i> spp. Rose	F
<i>Rudbeckia hirta</i> Gloriosa daisy/black-eyed susan	F
<i>Salvia</i> spp. Sage	F
<i>Stokesia laevis</i> Stokes aster	F
<i>Strelitzia reginae</i> Bird of paradise	F
<i>Tagetes</i> spp. Marigold	F
<i>Viola wittrockiana</i> Pansy	F
<i>Zinnia elegans</i> Common zinnia	F

Ornamental Bulbs

Special Use Precautions

Do not apply to tulip plants that have emerged to a height greater than ¼ inch. Deep till prior to planting any crop after this use.

Do not apply to gladioli prior to emergence or to plants less than one inch in diameter.

Application Rates, Frequency, and Timing of Applications

This product may be applied for annual weed control in ornamental bulbs such as bulbous iris, daffodil (*narcissus*), hyacinth, and tulip. Apply this product to the soil surface two (2) to four (4) weeks after planting and final hilling but prior to the emergence of annual weeds. This product may also be applied following bulb emergence. For fall-planted bulbs, apply this product again in late winter or early spring to weed-free soil surfaces.

Broadcast Application Rates

Time of Application	Soil Texture	This Product	
		pounds/acre	pounds/1000 sq ft
Fall	Coarse	45	1.00
Fall	Medium and Fine	90	2.00
Feb. - March	All	45	1.00

Non-bearing Fruit and Nut Trees and Non-bearing Vineyardst

Method:	Recommended	Treatment
	C = Container Grown F = Field Grown	
Scientific Name/Common Name		
Almond	F	
Apple	F	
Apricot	F	
Avocado	F	
Blackberry	F	
Blueberry	F	
Boysenberry	F	
Cherry, sour	F	
Cherry, sweet	F	
Currant	F	
Dewberry	F	
Elderberry	F	
Fig	F	
Filbert	F	
Gooseberry	F	
Grape, American	F	
Grape, European	F	
Grapefruit	F	
Kiwi	F	
Kumquat	C, F	
Lemon	F	
Loganberry	F	
Macadamia nut	F	
Nectarine	F	
Olive	F	
Orange	C, F	
Peach	F	
Pear	F	
Pecan	C, F	
Pistachio	F	
Plum	F	
Pomegranate	F	
Prune	F	
Raspberry	F	
Walnut, black	F	
Walnut, English	F	

† Non-bearing fruit and nut trees and non-bearing vineyards are defined as plants which will not bear fruit for at least one year after treatment.

Christmas Tree Plantations

Apply this product to established plantings of labeled field grown Christmas tree species prior to germination of target weeds. Do not apply to Douglas-fir (*Pseudotsuga menziesii*) or Eastern hemlock (*Tsuga canadensis*). Do not apply to seedbeds or seedling transplant beds. Apply only to established plantings. Established plants are defined as those that have been transplanted into their final growing location for a sufficient period of time to allow the soil to be firmly settled around the roots from packing and rainfall or irrigation.

Note: Refer to the "General Information" section of this label for general use precautions and information on application. Refer to "Approved Uses" section of this label for special use precautions and information on application rates and weeds controlled.

NONCROPLAND AREAS: INDUSTRIAL SITES, UTILITY SUBSTATIONS, HIGHWAY GUARDRAILS, SIGN POSTS, AND DELINEATORS

This product is recommended as a preemergence treatment for control of certain annual grasses and broadleaf weeds on industrial sites, utility substations, highway guardrails, sign posts, and delineators. Apply this product prior to germination of target weeds. Areas to be treated should be free of established weeds or existing weeds should be controlled with postemergence herbicides.

Note: Refer to the "General Information" section of this label for general use precautions and information on application. Refer to "Approved Uses" section of this label for special use precautions and information on application rates and weeds controlled.

WARM SEASON TURGRASSES

This product may be applied as a preemergence treatment for control of annual grasses and certain broadleaf weeds in established warm season turf including bahiagrass, bermudagrass, buffalograss, centipedegrass, St. Augustinegrass and zoysiagrass or established tall fescue growing in warm season areas. Established turf is defined as a dense turf having a well-anchored root system and healthy, vigorous top growth.

Successful preemergence control of weeds listed on this label requires that this product be applied prior to weed germination and be activated by at least one-half (½) inch rainfall or irrigation within 21 days of application.

SPECIAL USE PRECAUTIONS:

- To avoid possible injury, do not apply this product to:
- Cool season turfgrass species other than tall fescue.
 - Lawns containing dichondra or cool season turfgrass species.
 - Golf course putting greens or tees.
 - Turfgrass in the spring that was planted the previous fall.
 - Newly sprigged or sodded areas of bermudagrass, St. Augustinegrass, centipedegrass, zoysiagrass or tall fescue until these turfs are well-established and have well-anchored root systems.
 - Newly hydromulched areas of bermudagrass until such areas are well-established.

This product will not control emerged weeds.

This product may injure turf that is not well-established or is stressed or weakened due to unfavorable winter climatic conditions, drought, nematodes, or other factors which damage or weaken turf root systems.

Apply this product only to healthy, well-established turf that has a well-anchored root system.

Do not apply this product in the spring or early summer to tall fescue turfgrass reseeded the previous fall. In such cases, apply Balan* 2.5G granular herbicide at 60 to 80 pounds per acre in early summer (Round 1) and this product at 100 pounds per acre approximately eight weeks later (Round 2).

This product may thin established annual bluegrass (*Poa annua*) at rates above 100 pounds per acre.

In bermudagrass areas that have been overseeded with winter grasses, a spring application of this product will thin the overseeded grasses.

WEEDS CONTROLLED OR SUPPRESSED

Weeds controlled by this product when applied at 100 to 150 lb/acre (2.3 to 3.4 lb/1000 sq ft)

Annual Grasses

Common Name

- barnyardgrass
- crabgrass
- crowfoot grass
- foxtail
- goosegrass
- johnsongrass (seedling only)
- ryegrass, Italian
- sandbur, field

Summer Annuals:

Scientific Name

- Echinochloa crus-galli*
- Digitaria* spp.
- Dactyloctenium aegyptium*
- Setaria* spp.
- Eleusine indica*
- Sorghum halepense*
- Lolium multiflorum*
- Cenchrus incertus*

Winter Annuals:

Scientific Name

- Poa annua*

Common Name

- bluegrass, annual

Broadleaf Weeds

Summer Annuals:

Common Name

- carpetweed
- knotweed, prostrate
- purslane, common

Scientific Name

- Mollugo verticillata*
- Polygonum aviculare*
- Portulaca oleracea*

Winter Annuals:

Scientific Name

- Stellaria media*
- Lamium amplexicaule*

Common Name

- chickweed, common
- henbit

In addition to the weeds controlled, the following weeds will be partially controlled or suppressed at 100 to 150 lb/acre (2.3 to 3.4 lb/1000 sq ft).

Common Name

- carrot, wild
- fleabane, dwarf
- groundsel, common

Scientific Name

- Daucus carota*
- Conyza ramosissima*
- Senecio vulgaris*

Common Name

- mustard, Indian
- spurge, prostrate
- woodsorrel, yellow

Scientific Name

- Brassica juncea*
- Euphorbia humistrata*
- Oxalis stricta*

APPLICATION RATES, FREQUENCY AND TIMING OF APPLICATIONS

This product can be applied in the spring for summer annual grass and broadleaf weed control, and in the fall for annual bluegrass (*Poa annua*) and winter annual broadleaf weed control.

1. SUMMER ANNUAL GRASSES AND BROADLEAF WEEDS

Single Application Program: Apply 100 to 150 pounds per acre of this product in late winter or early spring, prior to the onset of conditions favorable for summer annual weed germination.

Split Application Program: As an alternative to a single application program, this product may be applied in a split application. This program is desirable when the initial application is made well in advance of weed germination and where weed control is desired for a longer period of time. Apply 100 pounds per acre of this product in an initial application, followed by a second application of 100 pounds per acre 8 to 10 weeks later.

The second treatment of the split application may follow application of a different preemergence grass herbicide in place of the initial application.

2. ANNUAL BLUEGRASS AND WINTER ANNUAL BROADLEAF WEEDS

Apply this product as a preemergence treatment in late summer or early fall, prior to the expected germination period for annual bluegrass and winter annual broadleaf weeds. Do not apply this product to areas where fall overseeding will occur. If annual bluegrass infestation is severe and its elimination will result in thinning of turfgrass cover, apply this product at 100 pounds per acre. If thinning of turfgrass cover is not a potential problem, this product may be applied 150 pounds per acre.

In areas of heavy annual bluegrass infestation, its elimination will result in temporary thinning of turfgrass cover. Proper fertilization, irrigation and soil incorporated reseeding should be employed to speed the restoration of desirable turfgrass cover in areas previously occupied by annual bluegrass (see section on reseeding).

WEED CONTROL IN FLORIDA

In Florida, apply 150 pounds per acre of this product three times per year, or every 90 to 100 days, in the fall, early spring, and early summer. Do not apply more than 150 pounds per acre of this product in any single application.

BROADCAST APPLICATION RATES

Pounds per acre	Pounds per 1000 sq ft
100	2.3
150	3.4

APPLICATION DIRECTIONS

Apply this product evenly over the turfgrass area. Avoid spray pattern skips and overlaps that may result in incomplete coverage or over-application. For best

results use application equipment designed to uniformly broadcast granular herbicides. More uniform application may be achieved by spreading half the required amount of product over the area and then applying the remaining half in swaths at right angles to the first application. Calibrate application equipment prior to use, according to manufacturer's directions. Check equipment frequently to make sure it is working properly and distributing granules uniformly.

RESEEDING

Herbicides that control annual weeds may also affect establishment of desirable turfgrass seedlings. Reseeding should be delayed for at least 6 weeks following application of this product at the 100 pound per acre rate. When using this product at the 150 pound per acre rate, reseeding should be delayed 12 to 16 weeks after application. When reseeding, it is essential that proper cultural practices such as soil cultivation and seedbed preparation, irrigation and fertilization be followed. For satisfactory reseeding results following this product's use, the seeding rate should be increased and equipment designed to place seed in full contact with soil (such as the Rogers Aero Seeder) should be employed.

SPREADER SETTINGS

(A guide for calibrating spreaders to apply this product in one pass over turf.)

Note: These settings are provided as suggested starting points in calibrating each individual spreader. Since no two spreaders are alike, these settings are intended only as a guide in beginning the calibration process.

Spreader Type	Estimated Spreader Setting Necessary to Apply the Specified Rate of this Product Per Acre in One Pass	
	100 lb/acre	150 lb/acre
Cyclone®:		
Models B1, 33, 96, BSSB at 200 ft/min	3¼	3½
Model 100 at 200 ft/min	3¼	3½
Model 93 (based on tractor speed of 4 mph)	5	6¼
Model 99 (based on tractor speed of 4 mph)	4¾	5¾-6
Model BPI (based on tractor speed of 4 mph)	4½	5¼-5½
Gandy®:		
Model 10A series, 6, 8, 10, 11, 12, 20 and 30 ft (based on tractor speed of 5 mph)	31	37
Model 10T series, 6, 8, 10, 11, 12, 20 and 30 ft (based on tractor speed of 5 mph)	33	40
Turf Tender, 24, 30, 42 inch (based on tractor speed of 3 mph)	25	28
600 Series, 2, 4 and 5 ft (based on tractor speed of 3 mph)	18	22

Spreader Type	Estimated Spreader Setting Necessary to Apply the Specified Rate of this Product Per Acre in One Pass	
	100 lb/acre	150 lb/acre
Lely:		
Model W and H (based on tractor speed of 4.5 mph)	3	4
Lesco®:		
Lesco Spreader (Note: set 3rd adjustable hole 1 notch from "open")	D ½	F
Scott:		
Rotary Model R-8	H ½	I ¼
Drop Spreader	37/8	45/8
Spyker®:		
Spyker	3.2	3.6
Vicon®:		
Model 402 (with seed ring) swath width 20 ft, 5 mph speed	24	28
Warren:		
Model T-7II (based on ground speed of 3.0 mph)	3¼	4

STORAGE AND DISPOSAL

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

Storage: Store in original container only. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

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: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC - 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY BEFORE BUYING OR USING THIS PRODUCT

read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way. Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

