



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

August 11, 2023

Jasmine Ponce  
Regulatory Compliance Specialist  
The Andersons, Inc.  
PO Box 119  
Maumee, OH 43537

Subject: Registration Review Label Mitigation for Isoxaben  
Product Name: The Andersons 2.0% Treflan & 0.5% Gallery Herbicides  
EPA Registration Number: 9198-252  
Application Date: November 2, 2022  
Decision Number: 588597

Dear Jasmine Ponce:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Isoxaben Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently

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approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Caleb Carr via email at [carr.caleb@epa.gov](mailto:carr.caleb@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington", with a long horizontal flourish extending to the right.

Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

Enclosure

(Base label)

Trifluralin	GROUP	3	HERBICIDE
Isoxaben	GROUP	29	HERBICIDE

## The Andersons 2.0% Treflan & 0.5% Gallery Herbicides

A selective preemergence herbicide for control of certain broadleaf weeds and annual grasses in:

- Landscape Ornamentals
- Christmas Tree Plantations
- Container Grown Ornamentals
- Field Grown Ornamentals
- Groundcovers/Perennials
- Non-Bearing Fruit and Nut Trees
- Non-Bearing Vineyards
- Non-Cropland

### Optional marketing information:

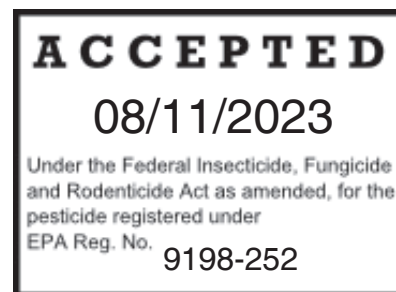


- DGPro® Dispersible Carrier
- Utilizes DGPro® Dispersing Granule, which disperses upon contact with moisture.

### Active Ingredients:

trifluralin: $\alpha, \alpha, \alpha$ -trifluoro-2,6-dinitro- <i>N</i> , <i>N</i> -dipropyl- <i>p</i> -toluidine .....	2.0%
isoxaben: <i>N</i> -[3-(1-ethyl-1-methylpropyl)-5- isoxazolyl]-2,6-dimethoxybenzamide and isomers .....	0.5%
Other Ingredients .....	97.5%
Total .....	100.0%

Contains 1.25 lb active ingredient per 50 lb bag.



### KEEP OUT OF REACH OF CHILDREN

## CAUTION PRECAUTION

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

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes moderate eye irritation. Harmful if swallowed or inhaled. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

Avoid breathing dust or spray mist and contact with eyes or clothing. Wash thoroughly with soap and water after handling.

### Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- 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.

## Engineering Controls

When handlers use closed systems or enclosed cabs 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.

## 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.
- Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

## First Aid

**If in eyes:** 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 swallowed:** 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-757-8951 for emergency medical treatment information.

## Environmental Hazards

This pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply in a manner which will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

**Ground Water Advisory:** This pesticide has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

This pesticide may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soil and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of isoxaben from runoff water and sediment.

**NON-TARGET ORGANISM ADVISORY STATEMENT:** This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

### **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

#### **Refer to label booklet for Directions for Use.**

In case of emergency endangering health or the environment involving this product, call 1-800-757-8951. If you wish to obtain additional product information, visit our web site at [www.andersonsinc.com](http://www.andersonsinc.com).

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

EPA Reg. No. 9198-252

EPA Est. 9198-OH-1M, 9198-OH-2B, 9198-AL-001A

Underlined letter is first letter used in run code on bag

Net Weight XX lbs. (XX kg)

(Label booklet cover)

Trifluralin	GROUP	3	HERBICIDE
Isoxaben	GROUP	29	HERBICIDE

## The Andersons 2.0% Treflan & 0.5% Gallery Herbicides

A selective preemergence herbicide for control of certain broadleaf weeds and annual grasses in:

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- Non-Cropland

### Optional marketing information:



- DGPro® Dispersible Carrier
- Utilizes DGPro® Dispersing Granule, which disperses upon contact with moisture

### Active Ingredients:

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isoxaben: <i>N</i> -[3-(1-ethyl-1-methylpropyl)-5- isoxazolyl]-2,6-dimethoxybenzamide and isomers.....	0.5%
Other Ingredients .....	97.5%
Total.....	100.0%

Contains 1.25 lb active ingredient per 50 lb bag.

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**Refer to inside of label booklet for additional precautionary information including Directions for Use.**

**Notice:** Read the entire label. Use only according to label directions.

In case of emergency endangering health or the environment involving this product, call 1-800-757-8951. If you wish to obtain additional product information, visit our web site at [www.andersonsinc.com](http://www.andersonsinc.com).

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EPA Reg. No. 9198-XXX

EPA Est. 9198-OH-1M, 9198-OH-2B, 9198-AL-001A  
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(Page 1 through end)

## KEEP OUT OF REACH OF CHILDREN CAUTION

### PRECAUTIONARY STATEMENTS

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#### Personal Protective Equipment (PPE)

##### Applicators and other handlers must wear:

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- 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.

#### Engineering Controls

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**NON-TARGET ORGANISM ADVISORY STATEMENT:** This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

## 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.

This product must be soil-incorporated within 24 hours of application either by mechanical incorporation or at least 0.5 acre inch of water (rainfall, irrigation). If a second incorporation is needed it should be delayed 3 to 5 days after the first incorporation and be completed prior to planting.

### 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 of this label about personal protective equipment (PPE), and restricted entry interval. The requirements in the 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
- Chemical-resistant gloves, such as butyl rubber 211 mils; or natural rubber 214 mils; or neoprene rubber 214 mils; or nitrile rubber 214 mils
- Shoes plus socks

### Non-Agricultural Use Requirements

The requirements of 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.

For applications in landscape settings and in non-cropland sites, do not enter or allow others to enter the treated area until dusts have settled.



## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Keep out of reach of children and animals. Store in original container only. Store in cool, dry place and avoid excess heat.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of the 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. 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.

## General Information

This product is a preemergence product for control of certain broadleaf weeds and annual grasses in container and landscape ornamentals, nursery stock, Christmas trees, groundcovers/perennials, non-bearing fruit and nut trees, non-bearing vineyards and non-cropland areas. Apply this product anytime 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 overtime to determine when additional applications may be needed

## General Use Precautions and Restrictions

**In Arizona:** The state of Arizona has not approved this product for use on plants grown for agricultural/commercial production; such as on Christmas tree plantations, container grown or field grown ornamentals, non-bearing fruit and nut trees and non-bearing vineyards.

This product controls weeds growing from seed. This product does not control established weeds, weeds growing from stolons, rhizomes, or root pieces. 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. Optimum weed control is obtained when this product is activated within 3 days of application. If rainfall or irrigation does not occur within 3 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 to 2 inches of soil. Failure to activate this product within 3 days of application may result in erratic control of annual grasses. Do not apply when wind conditions favor drift of this products granules from the target area.

Repeat applications at 150 lb per acre and higher should not be made sooner than 60 days after a previous application of this product. Do not apply over 600 pounds per acre total of this product within a 12-month period.

**Tolerance of turfgrass adjacent to ornamental plantings:** Accidental application to turf may occur when applying this product to ornamental plantings. This product is not recommended for weed control in turfgrasses, but turfgrasses are generally tolerant to small amounts of this product that fall outside of the intended area of application.

Not for sale, distribution or use in New York State.

Do not aerielly apply this product.

Do not apply The Andersons 2.0% Treflan & 0.5% Gallery Herbicides to turfgrass grown for seed.

## Treatment species not listed on the label for this product

Users who wish to use this product on plant species not recommended on this label may determine the suitability for use 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 for during 30 to 60 days of normal growing conditions to determine if the treatment is safe 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 Instructions

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 splashboard 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 hand held 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.
- The weight-to-volume conversion table below provides equivalent amounts of this product.

### Broadcast Rates

Rate	Amount/1000 sq ft		Amount/100 sq ft	
lb/Acre	(lb)	(quarts)	(lb)	(cups)
100	2.30	1.75	0.23	0.7
150	3.45	2.60	0.35	1.0
200	4.60	3.50	0.46	1.4

1 lb of this product = 0.75 quart = 3 cups

## WEED RESISTANCE MANAGEMENT

For resistance management, The Andersons 2.0% Treflan & 0.5% Gallery Herbicides which is both a Group 3 and Group 29 herbicide based on the mode of action classification system of the Weed Science Society of America.

Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is a best practice. A diversified weed management program may include the use of multiple herbicides with different modes of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistance.

The continued effectiveness of this product depends on the successful implementation of a weed resistance management program.

To aid in the prevention of developing weeds resistant to this product, users should:

- Scout fields before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.
- Start with a clean field, using either a burndown herbicide application or tillage.
- If using post-emergence herbicides or tank mixes, control weeds early when they are relatively small.
- Apply full rates of this product for the most difficult to control weed in the field at the specified time to minimize weed escapes.
- Scout fields after application to detect weed escapes or shifts in control of weed species.
- Control weed escapes before they reproduce by seed or proliferate vegetatively.
- Report any incidence of non-performance of this product against a particular weed to your local company representative, local retailer, or county extension agent.
- Contact your local company representative, crop advisor, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so that there are multiple effective modes of action for each target weed.
- If resistance is suspected, treat weed escapes with an herbicide having a mode of action other than Group

3 and/or Group 29 use nonchemical methods to remove escapes, as practical, with the goal of preventing further seed production.

- Suspected herbicide-resistant weeds may be identified by these indicators:
- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species.

Additionally, users should follow as many of the following herbicide resistance management practices as is practical:

- Use a broad spectrum herbicide with other mode of action as a foundation in a weed control program, if appropriate.
- Utilize sequential applications of herbicides with alternative modes of action.
- Rotate the use of this product with non-Group 3 and/or Group 29 herbicides.
- Avoid making more than two sequential applications of this product and any other Group 3 and/or Group 29 herbicides within a single growing season unless mixed with an herbicide with a different mode of action with an overlapping spectrum for the difficult-to-control weeds.
- Incorporate non-chemical weed control practices, such as mechanical cultivation, crop rotation, cover crops and weed-free crop seeds, as part of an integrated weed control program.
- Use good agronomic principles that enhance crop development and crop competitiveness.
- Thoroughly clean plant residues from equipment before leaving fields suspected to contain resistant weeds.
- Manage weeds in and around fields to reduce weed seed production.

## BEST MANAGEMENT PRACTICES

Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is recommended. A diversified weed management program may include the use of multiple herbicides with different modes of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistant weeds. Scouting after herbicide application is important because it can facilitate the early identification of weed shifts and/or weed resistance and thus provide direction on future weed management practices. One of the best ways to contain resistant weed populations is to implement measures to avoid allowing weeds to reproduce by seed or to proliferate vegetatively. Cleaning equipment between sites and avoiding movement of plant material between sites will greatly aid in reducing the spread of resistant weed seed.

## Weeds Controlled or Suppressed

**Weeds controlled when applied at 100 lb per acre (2.3 lb per 1000 sq ft):**

<b>Common Name</b>	<b>Scientific Name</b>
aster, slender	<i>Aster exilis</i>
barnyardgrass	<i>Echinochloa crus-galli</i>
bluegrass, annual	<i>Poa annua</i>
bursage, annual	<i>Ambrosia acanthicarpa</i>
celery, wild	<i>Apium leptophyllum</i>
chickweed, common	<i>Stellaria media</i>
clover, white	<i>Trifolium repens</i>
crabgrass	<i>Digitaria</i> spp.
cudweed, purple	<i>Gnaphalium purpureum</i>
cupgrass, southwestern	<i>Eriochloa gracilis</i>
fiddleneck, coast	<i>Amsinckia intermedia</i>
filaree, redstem	<i>Erodium cicutarium</i>
fleabane, blackleaved	<i>Conyza bonariensis</i>
fleabane, dwarf	<i>Conyza ramosissima</i>
foxtail, yellow	<i>Setaria glauca</i>
groundcherry, lanceleaf	<i>Physalis lanceifolia</i>
henbit	<i>Lamium amplexicaule</i>
horseweed	<i>Conyza canadensis</i>
junglerice	<i>Echinochloa colonum</i>
knotweed, prostrate	<i>Polygonum aviculare</i>
lambsquarters, common	<i>Chenopodium album</i>

mallow, little	<i>Malva parviflora</i>
mustard, Indian	<i>Brassica juncea</i>
mustard, wild	<i>Sinapis arvensis</i>
nightshade, black	<i>Solanum nigrum</i>
oat, wild	<i>Avena fatua</i>
panicum, fall	<i>Panicum dichotomiflorum</i>
pepperweed, Virginia	<i>Lepidium virginicum</i>
pigweed	<i>Amaranthus</i> spp.
pineappleweed	<i>Matricaria matricarioides</i>
plantain, slender	<i>Plantago elongata</i>
purslane, common	<i>Portulaca oleracea</i>
radish, wild	<i>Raphanus raphanistrum</i>
ragweed, common	<i>Ambrosia artemisiifolia</i>
rocket, London	<i>Sisymbrium irio</i>
rockpurslane, desert	<i>Calandrinia ciliata</i>
shepherdspurse	<i>Capsella bursa-pastoris</i>
sibara	<i>Sibara virginica</i>
smartweed, Pennsylvania	<i>Polygonum pensylvanicum</i>
sowthistle, annual	<i>Sonchus oleraceus</i>
speedwell, purslane	<i>Veronica peregrina</i>
sprangletop, Mexican	<i>Leptochloa univervia</i>
telegraphplant	<i>Heterotheca grandiflora</i>
thistle, Russian	<i>Salsola iberica</i>
witchgrass	<i>Panicum capillare</i>

**Weeds controlled when applied at 150 lb per acre (3.5 lb per 1000 sq ft):**

<b>Common Name</b>	<b>Scientific Name</b>
aster, heath	<i>Aster ericoides</i>
bittercress	<i>Cardamine oligosperma</i>
bittercress, hairy	<i>Cardamine hirsuta</i>
brassbuttons, southern	<i>Cotula australis</i>
carrot, wild	<i>Daucus carota</i>
chamberbitter	<i>Phyllanthus urinaria</i>
chickweed, mouseear	<i>Cerastium vulgatum</i>
dandelion	<i>Taraxacum officinale</i>
eclipta	<i>Eclipta prostrata</i>
fireweed	<i>Erechtites hieracifolia</i>
foxtail, giant	<i>Setaria faberi</i>
galinsoga, hairy	<i>Galinsoga ciliata</i>
geranium, Carolina	<i>Geranium carolinianum</i>
groundsel, common	<i>Senecio vulgaris</i>
ladysthumb	<i>Polygonum persicaria</i>
lettuce, prickly	<i>Lactuca serriola</i>
lovegrass	<i>Eragrostis</i> spp.
mallow, dwarf	<i>Malva rotundifolia</i>
marestail	<i>Hippuris vulgaris</i>
mayweed	<i>Anthemis cotula</i>
morningglory, ivyleaf	<i>Ipomoea hederacea</i>
mustard, black	<i>Brassica nigra</i>
pennywort	<i>Hydrocotyle</i> spp.
phyllanthus, long-stalk	<i>Phyllanthus tenellus</i>
plantain, bracted	<i>Plantago aristata</i>
plantain, broadleaf	<i>Plantago major</i>
plantain, buckhorn	<i>Plantago lanceolata</i>
pokeweed, common	<i>Phytolacca americana</i>
rockpurslane, redmaids	<i>Calandrinia ciliata</i> var. <i>menziesii</i>
ryegrass, annual	<i>Lolium multiflorum</i>
sida, prickly	<i>Sida spinosa</i>
sorrell, red	<i>Rumex acetosella</i>
speedwell, thymeleaf	<i>Veronica serpyllifolia</i>
spurge, hyssop	<i>Euphorbia hyssopifolia</i>

spurge, spotted	<i>Euphorbia maculata</i>
sweetclover, yellow	<i>Melilotus officinalis</i>
tansymustard, green	<i>Descurainia pinnata</i>
velvetleaf	<i>Abutilon theophrasti</i>
woodsorrel, yellow	<i>Oxalis stricta</i>

**Weeds controlled when applied at 200 lb per acre (4.6 lb per 1000 sq ft):**

<b>Common Name</b>	<b>Scientific Name</b>
barley, hare	<i>Hordeum leporinum</i>
bromegrass	<i>Bromus</i> spp.
burclover, California	<i>Medicago polymorpha</i>
cheat	<i>Bromus secalinus</i>
datura	<i>Datura</i> spp.
dogfennel	<i>Eupatorium capillifolium</i>
eveningprimrose	<i>Oenothera</i> spp.
fescue, rattail	<i>Vulpia myuros</i>
filaree, whitestem	<i>Erodium moschatum</i>
goosefoot, nettleleaf	<i>Chenopodium murale</i>
goosegrass	<i>Eleusine indica</i>
jimsonweed	<i>Datura stramonium</i>
knotweed, silversheath	<i>Polygonum argyrocoleon</i>
kochia	<i>Kochia scoparia</i>
medic, black	<i>Medicago lupulina</i>
mullein, turkey	<i>Eremocarpus setigerus</i>
nettle, burning	<i>Urtica urens</i>
nettle, stinging	<i>Urtica dioica</i>
ox tongue, bristly	<i>Picris echioides</i>
pimpernel, scarlet	<i>Anagallis arvensis</i>
sandbur, field	<i>Cenchrus incertus</i>
signalgrass	<i>Brachiaria</i> spp.
sowthistle, spiny	<i>Sonchus asper</i>
spurge, petty	<i>Euphorbia peplus</i>
spurge, prostrate	<i>Euphorbia humistrata</i>
stinkgrass	<i>Eragrostis cilianensis</i>
sunflower	<i>Helianthus</i> spp.
swinecress	<i>Coronopus didymus</i>
thistle, musk	<i>Carduus nutans</i>
willoweed, panicle	<i>Epilobium paniculatum</i>
woodsorrel, creeping	<i>Oxalis corniculata</i>

**Weeds partially controlled or suppressed when applied at 200 lb per acre (4.6 lb per 1000 sq ft):**

<b>Common Name</b>	<b>Scientific Name</b>
bindweed, field	<i>Convolvulus arvensis</i>
carpetweed	<i>Mollugo verticillata</i>
dock, curly	<i>Rumex crispus</i>
johnsongrass (seedling)	<i>Sorghum halepense</i>
mallow, Venice	<i>Hibiscus trionum</i>
milkweed, honeyvine	<i>Ampelamus albidus</i>
morningglory, tall	<i>Ipomoea purpurea</i>
panicum, Texas	<i>Panicum texanum</i>
pusley, Florida	<i>Richardia scabra</i>
shattercane	<i>Sorghum bicolor</i>

## Uses

### Ornamental Plantings

This product is recommended as a preemergence treatment for control of certain broadleaf weeds and annual grasses in container grown ornamentals, landscape ornamentals, field grown ornamentals, ground covers/perennials, Christmas trees, non-bearing fruit and nut crops, and non-bearing vineyards. Apply this product anytime prior to germination of target weeds, or immediately after cultivation.

Refer to the General Information section of this label for General Use Precautions and information on application, application rates and weeds controlled.

#### Special Use Precautions:

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

- nursery, forest, or Christmas tree: seedling beds, cutting beds, or transplant beds.
- 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.
- bedding plants or areas where bedding plants will be planted or transplanted within one year following application.
- groundcovers until they are established and well rooted.

Do not apply This product to newly transplanted ornamentals, nursery stock, Christmas trees, groundcovers, non-bearing fruit and nut trees and non-bearing vineyards until soil or potting media has been settled by packing and irrigation or rainfall and no cracks are present or injury may occur.

Repeat applications at 150 lb per acre and higher should not be made sooner than 60 days after a previous application of this product. Do not apply over 600 lb per acre total of this product within a 12-month period.

Where loss of stand has occurred in field grown ornamentals, use untreated soil as fill around roots when replacing plants or injury may occur.

**Note:** Injury on the following plant species has been observed following applications of this product and use is not recommended.

#### Common Name

ballerina cranesbill  
bertram anderson lingwort  
bugle  
cajeput tree  
candytuft  
Carolina rhododendron  
dwarf burning bush  
foxglove  
green yucca  
hydrangea  
luxuriant bleeding heart  
mountain sandwort  
mustard  
oak leaf acanthus  
prince of wales juniper  
purple coneflower  
roseum elegans rhododendron  
  
spurge  
stonecrop  
summer phlox  
white festival baby's breath  
wine periwinkle

#### Scientific Name

*Geranium cinereum* 'Ballerina'  
*Pulmonaria longifolia*  
*Ajuga* spp.  
*Melaleuca quinquenervia*  
*Iberis* spp.  
*Rhododendron carolinianum*  
*Euonymus alatus* 'compacta'  
*Digitalis purpurea*  
*Yucca recurvifolia*  
*Hydrangea* spp.  
*Dicentra luxuriant*  
*Arenaria montana*  
*Brassica* spp.  
*Acanthus mollis*  
*Juniperus horizontalis* 'Prince of Wales'  
*Echinacea purpurea*  
*Rhododendron catawbiense* 'Roseum  
*elegans*'  
*Euphorbia* spp.  
*Sedum* spp.  
*Phlox paniculata*  
*Gypsophila paniculata*  
*Vinca minor* 'Atropurpurea'

**This product may be used on the following established plant species (Note: Limitations on recommended treatment methods):**

Scientific Name	Common Name	Recommended Treatment Method:	
		C	F
		<b>C = Container Grown</b>	<b>F = Field Grown</b>
<i>Abies balsamea</i>	fir, balsam	C, F	
<i>Abies concolor</i>	fir, white	F	
<i>Abutilon hybridum</i>	albus-flowering maple	C, F	
	luteus-flowering maple	C, F	
	roseus-flowering maple	C, F	
	tangerine-flowering maple	C, F	
	vesuvius red-flowering maple	F	
<i>Acer ginnala</i>	flame maple	F	
<i>Acer rubrum</i>	red maple	F	
	red sunset maple	F	
<i>Acer saccharinum</i>	silver maple	C, F	
<i>Alsophila australis</i>	Australian tree fern	C, F	
<i>Areacastrum romanzoffianum</i>	queen palm	C, F	
<i>Betula nigra</i>	birch, river	C, F	
<i>Betula papyrifera</i>	paper birch	F	
<i>Brachychiton populneus</i>	bottle tree	C, F	
<i>Bucida buceras</i>	black olive	F	
<i>Ceratonia siliqua</i>	carob	F	
<i>Cercis canadensis</i>	redbud	C, F	
<i>Chamaecyparis obtusa</i>	filicoides-fernspray cypress	F	
<i>Chamaecyparis obtusa</i>	gracilis-slender hinoki cypress	F	
<i>Chamaecyparis pisifera</i>	sawara-false cypress	F	
	squarrosa-moss cypress	F	
<i>Chamaedorea cataractarum</i>	cat palm	F	
	palm	C, F	
<i>Chamaedorea costaricana</i>	palm	C, F	
<i>Chamaedorea elegans</i>	parlor palm	C, F	
<i>Cornus florida</i>	cloud nine dogwood	C, F	
	dogwood, flowering	C, F	
<i>Crataegus viridis</i>	green hawthorn	F	
<i>Cryptomeria japonica</i>	cryptomeria, Japanese	C, F	
<i>Cupaniopsis anacardioides</i>	carrot wood	F	
<i>Cupressocyparis x 'Emerald Isle'</i>	emerald island leyland cypress	C, F	
<i>Cupressus arizonica</i>	Arizona cypress	C, F	
<i>Cupressus glabra</i>	Arizona cypress	F	
<i>Cupressus sempervirens</i>	Italian cypress	C, F	
<i>Dicksonia antarctica</i>	Tasmanian tree fern	C, F	
<i>Elaeagnus angustifolia</i>	Russian olive	C, F	
<i>Elaeagnus x 'Gilt edge'</i>	gilt edge silverberry	C, F	
<i>Eucalyptus camaldulensis</i>	red gum eucalyptus	F	
<i>Eucalyptus cinerea</i>	eucalyptus, mealy	F	
	silver dollar eucalyptus	F	
<i>Eucalyptus microtheca</i>	coolibah tree	C, F	
<i>Eucalyptus sideroxylon</i>	eucalyptus, red ironbark	F	
<i>Ficus benjamina</i>	fig	C, F	
	mini fig	C, F	
<i>Fraxinus udhei</i>	shamel ash	C, F	
<i>Ginkgo biloba</i>	ginkgo (maidenhair tree)	F	
<i>Gleditsia triacanthos</i>	honey locust	F	
	shademaster honey locust	F	
<i>Heteromeles arbutiflora</i>	toyon	F	
<i>Illicium floridanum</i>	Florida anise-tree	C, F	
<i>Juniperus virginiana</i>	redcedar, eastern	C, F	

<i>Liquidambar styraciflua</i>	sweetgum, American	F
<i>Magnolia grandiflora</i>	magnolia, southern	C, F
<i>Morus alba</i>	white mulberry	F
<i>Musa aluminata</i>	banana	C, F
<i>Oxydendrum arboreum</i>	sourwood	C, F
<i>Picea abies</i>	pendula-weeping Norway spruce	C, F
	repens-spreading Norway spruce	C, F
	spruce, Norway	C, F
<i>Picea glauca</i>	conica-dwarf Alberta spruce	C, F
<i>Picea glauca conica</i>	dwarf Alberta spruce	F
<i>Picea pungens</i>	dwarf globe blue spruce	C, F
	glauca-Colorado blue spruce	C, F
	hoopsii-hoop's blue spruce	C, F
	koster-koster blue spruce	F
<i>Pinus aristata</i>	bristlecone pine	F
<i>Pinus canariensis</i>	canary island pine	F
<i>Pinus contorta</i>	shore pine, beach pine	F
<i>Pinus eldarica</i>	eldarica pine	C, F
<i>Pinus leucodermis</i>	Bosnian pine	C, F
<i>Pinus mugo</i>	pumilio-shrubby swiss mountain pine	C, F
<i>Pinus nigra</i>	Austrian black pine	C, F
<i>Pinus radiata</i>	monterey pine	F
<i>Pinus strobus</i>	eastern white pine	C, F
<i>Pinus strobus</i>	white pine	C, F
<i>Pinus sylvestris</i>	columnar Scotch pine	C, F
	Scotch pine	C, F
<i>Pinus thunbergiana</i>	Japanese black pine	C, F
<i>Platanus occidentalis</i>	American sycamore	F
<i>Platanus racemosa</i>	Californina sycamore	F
<i>Podocarpus spp.</i>	podocarpus	F
<i>Populus deltoides</i>	cottonwood	F
<i>Prosopis chilensis</i>	Chilean mesquite	C, F
<i>Prunus yedoensis</i>	yoshino flowering cherry	F
<i>Quercus ilicifolia</i>	bear oak	F
<i>Quercus palustris</i>	pin oak	F
<i>Quercus phellos</i>	willow oak	C, F
<i>Quercus rubra</i>	red oak	C, F
<i>Quercus virginiana</i>	live oak	C, F
<i>Salix babylonica</i>	babylon weeping willow	F
	corkscrew willow	F
<i>Sequoiadendron giganteum</i>	giant sequoia	F
<i>Swietenia mahogani</i>	mahogany	F
<i>Tabebuia caraiba</i>	yellow tab	F
<i>Tsuga canadensis</i>	eastern hemlock	C, F
<i>Ulmus parvifolia</i>	Chinese elm	F
<i>Washingtonia robusta</i>	Mexican fan palm	F



**Shrubs****Recommended Treatment Method****C = Container Grown****F = Field Grown****Scientific Name****Common Name**

<i>Abelia grandiflora</i>	edward goucher abelia	C, F
	glossy abelia	C, F
<i>Acacia abyssinica</i>	abyssinica acacia	C, F
<i>Acacia redolens</i>	acacia, prostrate	C, F
<i>Acacia stenophylla</i>	shoestring acacia	C, F
<i>Acalypha wilkesiana</i>	copper leaf	C, F
<i>Acer ginnala</i>	amur maple	C, F
<i>Acer palmatum</i>	coral bark Japanese maple	C, F
	dwarf Japanese maple	C, F
<i>Agapanthus africanus</i>	queen anne lily of the Nile	C, F
<i>Agave americana</i>	century plant	F
<i>Anisodonteia hypomandarum</i>	cape mallow	C, F
<i>Aptenia cordifolia</i>	red apple aptenia	C, F
<i>Ardisia japonica</i>	chirimen marlberry	C, F
<i>Astible arendsii</i>	false spiraea	C, F
<i>Astilbe chinensis</i>	astilbe/false spirea	C, F
<i>Athyrium nipponicum</i>	Japanese painted fern	C, F
<i>Baccharis pilularis</i>	coyotebush	F
<i>Berberis gladwynensis</i>	william penn barberry	C, F
<i>Berberis mentorensis</i>	mentor barberry	C, F
<i>Berberis thunbergii</i>	aurea-golden Japanese barberry	F
	crimson pygmy barberry	C, F
	rose glow barberry	C, F
	atropurea-redleaf Japanese barberry	F
	cherry bomb barberry	C, F
<i>Bougainvillea</i> spp.	barbara karst	C, F
	California gold	C, F
	pink pixie	C, F
	scarlet o'hara	C, F
	temple fire	C, F
	Texas dawn	C, F
<i>Buxus</i> x 'Green velvet'	green velvet boxwood	C, F
<i>Buxus microphylla japonica</i>	boxwood, Japanese	C, F
<i>Buxus microphylla Koreana</i>	Korean boxwood	F
<i>Buxus sempervirens</i>	boxwood, common	C, F
<i>Callistemon citrinus</i>	bottlebrush, lemon	F
<i>Callistemon viminalis</i>	weeping bottlebrush	C, F
<i>Calluna vulgaris</i>	spring torch Scotch heather	C, F
<i>Camellia japonica</i>	camellia	C, F
<i>Caryopteris x clandonen</i>	dark knight bluebeard	C, F
<i>Cassia artemisioides</i>	cassia, feathery	C, F
<i>Ceanothus</i> spp.	wild lilac	F
<i>Cephalotaxus drupacae</i>	plum yew	C, F
<i>Cerastium tomentosum</i>	snow-in-summer	C, F
<i>Chamaecyparis obtusa</i>	kosteri cypress	C, F
	nana-dwarf hinoki cypress	C, F
	torulosa cypress	C, F
<i>Chamaecyparis pisifera</i>	baileyi-dogwood	F
	flaviramea-dogwood	F
	squarrosa minima cypress	C, F
<i>Chamaecyparis pisifera</i> spp.	filifera-thread cypress	C, F
<i>Chrysalidocarpus lutescens</i>	areca palm	F
<i>Clethra alnifolia</i>	summersweet	C, F
<i>Cleyera japonica</i>	cleyera, Japanese	C, F
<i>Coleonema pulchrum</i>	pink breath of heaven	C, F
<i>Convolvulus cneorum</i>	bush morning glory	C, F

<i>Cornus alba</i>	sibirica-Siberian dogwood	C, F
<i>Cornus stolonifera</i>	baileyi-red-osier dogwood	F
	flaviramea-yellowtwig dogwood	F
<i>Cotinus coggygria</i>	royal purple smoke tree	C, F
<i>Cotinus dammeri</i>	coral beauty smoke tree	C, F
	eichholz smoke tree	C, F
<i>Cotoneaster adpressus</i>	praecox-early cotoneaster	C, F
<i>Cotoneaster apiculatus</i>	cotoneaster, cranberry	C, F
<i>Cotoneaster congestus</i>	cotoneaster, Pyrenees	C, F
<i>Cotoneaster dammeri</i>	cotoneaster, bearberry	C, F
<i>Cotoneaster himalayan</i>	Himalayan cotoneaster	C, F
<i>Cotoneaster horizontalis</i>	cotoneaster, rock	C, F
<i>Cotoneaster opiculata</i>	cotoneaster	C, F
<i>Cycas revoluta</i>	sago palm	C, F
<i>Cytisus praecox</i>	hollandia-warminster broom	C, F
<i>Cytisus scoparius</i>	lena-Scotch broom	C, F
<i>Cytisus</i> spp.	holandia-Scotch broom	F
<i>Daphne odora</i>	fragrant daphne	C, F
<i>Deutzia crenata</i>	nakiana-dwarf deutzia	C, F
<i>Deutzia gracilis</i>	slender gracilis	C, F
<i>Dodonea viscosa</i>	hopseed bush	F
<i>Elaeagnus pungens</i>	fruitland silver berry	C, F
<i>Erica cinerea</i>	purple bell heather	C, F
<i>Erica vagans</i>	cornish heather	C, F
<i>Erica x darleyensa</i>	Mediterranean pink heather	C, F
<i>Eugenia myrtifolia</i>	dwarf brush cherry	C, F
<i>Euonymus x 'Aureo variegatus'</i>	gold spot euonymus	C, F
<i>Euonymus x 'Chollipo'</i>	chollipo euonymus	C, F
<i>Euonymus fortunei</i>	canadale gold euonymus	C, F
	emerald'n gold euonymus	F
	sunspot euonymus	C, F
<i>Euonymus japonica</i>	silver king euonymus	F
	variegated evergreen euonymus	C, F
<i>Euonymus kiatschovica</i>	spreading euonymus	C, F
<i>Euonymus vegetus</i>	bigleaf wintercreeper	C, F
<i>Euryops pectinatus</i>	dwarf euryops	C, F
<i>Fatsyhedera japonica</i>		C, F
<i>Fatsia japonica</i>	Japanese aralia	C, F
<i>Felicia amelooides</i>	blue marguerite	C, F
<i>Forsythia intermedia</i>	forsythia, border	C, F
<i>Forsythia x 'Spring glory'</i>	spring glory forsythia	C, F
<i>Gardenia jasminoides</i>	august beauty gardenia	C, F
	gardenia	C, F
	radican gardenia	C, F
<i>Gaultheria shallon</i>	salal/lemon leaf	C, F
<i>Gelsemium sempervirens</i>	Carolina jessamine	C, F
<i>Genista pilosa</i>	woadwaxen	C, F
<i>Hibiscus rosa-sinensis</i>	ross estey-hibiscus	C, F
<i>Hibiscus syriacus</i>	rose of sharon, red bird	C, F
	rose of sharon, red heart	F
	rose of sharon, woodbridge	C, F
	rose of sharon, aphrodite	
	rose of sharon, helene	
<i>Ilex aquifolium</i>	Balkans holly	F
	gold coast holly	F
<i>Ilex aquipernyi</i>	san jose holly	C, F
<i>Ilex attenuata</i>	savannah holly	C, F
<i>Ilex cornuta</i>	burford holly	C, F
	dwarf burford holly	C, F
	needle point holly	C, F
<i>Ilex crenata</i>	compacta-dwarf Japanese holly	C, F

<i>Ilex crenata</i>	convexa holly	C, F
	dwarf Chinese holly	C, F
	green luster holly	C, F
	helleri-heller's Japanese holly	C, F
	hetzii's Japanese holly	C, F
	stokesii Japanese holly	C, F
<i>Ilex glabra</i>	compacta-compact inkberry holly	C, F
	nordica-inkberry holly	C, F
<i>Ilex meserveae</i>	blue boy holly	C, F
	blue girl holly	C, F
	China boy holly	
	China girl holly	
	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>Illicium annisatum</i>	mystery gardenia	C, F
<i>Itea ilicifolia</i>	henry garnet holly leaf sweetspire	C, F
<i>Ixora collinea</i>	ixora	C, F
	foemina-hicks juniper	C, F
	savin juniper	C, F
	tamariscifolia-tam juniper	C, F
<i>Juniperus chinensis</i>	hollywood juniper	C, F
	media-old gold juniper	C, F
	pfitzer juniper	C, F
	pfitzerana glauca-blue juniper	C, F
	pfitzerana-pfitzer juniper	C, F
	sea green juniper	F
	torulosa-hollywood juniper	C, F
<i>Juniperus conferta</i>	emerald sea shore juniper	C, F
	shore juniper	C, F
<i>Juniperus horizontalis</i>	andorra juniper	C, F
	bar harbor juniper	C, F
	blue chip juniper	C, F
	blue rug juniper	C, F
	creeping juniper	C, F
	dwarf andorra juniper	C, F
	huntington blue juniper	C, F
	plumosa-andorra juniper	C, F
	wiltonii-blue carpet juniper	C, F
<i>Juniperus procumbens</i>	nana-dwarf Japaneses garden juniper	C, F
<i>Juniperus prostrata</i>	prostrata juniper	C, F
<i>Juniperus sabina</i>	broadmoor juniper	C, F
	foemina-hicks juniper	C, F
	savin juniper	C, F
	tamariscifolia-tam juniper	C, F
<i>Juniperus scopulorum</i>	emerald green juniper	F
<i>Juniperus squamata</i>	blue juniper	C, F
	blue star juniper	C, F
	parsonii juniper	C, F
<i>Kalmia latifolia</i>	laurel, mountain	C, F
<i>Lagerstroemia indica</i>	crepe myrtle	C, F
<i>Lantana</i> spp.	lantana	C, F
<i>Lavandula angustifolia</i>	English lavender	C, F
<i>Lavandula latifolia</i>	English spike lavender	C, F
<i>Lavandula officianalis</i>	English lavender	C, F
<i>Leptospermum scoparium</i>	New Zealand tea tree	C, F
<i>Leucothoe axillaris</i>	leucothoe, coast	C, F
<i>Leucothoe fontanesiana</i>	leucothoe, drooping	C, F
<i>Ligustrum japonicum</i>	privet, Japanese	C, F
	wax ligustrum	C, F
	yellow tip ligustrum	C, F

<i>Ligustrum lucidum</i>	privet, glossy	C, F
<i>Ligustrum ovalifolium</i>	California privet	F
<i>Ligustrum texanum</i>	howardi privet	C, F
	wax leaf privet	C, F
<i>Ligustrum vicaryi</i>	privet, golden	F
	vicary golden privet	F
<i>Ligustrum vulgare</i>	lodense privet	C, F
<i>Livistona chinensis</i>	Chinese fountain palm	F
<i>Lonicera fragrantissima</i>	winter honeysuckle	C, F
<i>Lonicera periclymenum</i>	flowering woodbine	C, F
	serotina woodbine	C, F
<i>Lonicera sempervirens</i>	trumpet honeysuckle	C, F
<i>Loropetalum chinense</i>	fringe flower	C, F
<i>Mahonia aquifolium compacta</i>	dwarf Oregon grape	C, F
<i>Mahonia bealei</i>	leather leaf mahonia	C, F
<i>Mahonia repens</i>	creeping mahonia	C, F
<i>Myrica cerifera</i>	wax myrtle	C, F
<i>Nandina domestica</i>	compacta-dwarf heavenly bamboo	C, F
	harbour dwarf-heavenly bamboo	C, F
	heavenly bamboo (nandina)	C, F
	nana compacta-heavenly bamboo	C, F
	nana purpurea-heavenly bamboo	C, F
	woods dwarf-heavenly bamboo	C, F
<i>Nerium oleander</i>	hardy red oleander	C, F
	oleander	C, F
	ruby lace oleander	C, F
<i>Osmanthus fortunei</i>	fortunes osmanthus	C, F
<i>Pachysandra terminalis</i>	Japanese spurge	C, F
<i>Phoenix roeloenii</i>	pigmy date palm	C, F
<i>Photinia fraseri</i>	fraser's photinia	C, F
<i>Pieris japonica</i>	lily-of-the-valley	C, F
	mountain fire lily-of-the-valley	C, F
	snowdrift lily-of-the-valley	C, F
	temple bells lily-of-the-valley	C, F
	valley rose lily-of-the-valley	C, F
	valley valentine lily-of-the-valley	C, F
<i>Pieris japonica x forestii</i>	forest flame lily-of-the-valley	C, F
<i>Pinus mugo</i>	mugo-mugho pine	C, F
<i>Pittosporum tobira</i>	green pittosporum	C, F
	wheeler's dwarf	C, F
	pittosporum	
<i>Plumbago ariculata</i>	blue cape plumbago	F
<i>Plumbago capensis</i>	plumbago	C, F
<i>Podocarpus macrophyllus</i>	yewpine	C, F
<i>Polygala dalmaisiana</i>	sweet pea shrub	C, F
<i>Polystichum polyblepharum</i>	tassel fern	C, F
<i>Potentilla fragiformis</i>	cinquefoil	F
<i>Potentilla fruticosa</i>	cinquefoil	C, F
	gold drop potentilla	F
	goldfinger potentilla	C, F
	red ace potentilla	C, F
	sunset potentilla	C, F
	tangerine potentilla	C, F
<i>Potentilla verna</i>	spring cinquefoil	C, F
<i>Prunus glandulosa</i>	dwarf pink flowering almond	C, F
<i>Pyracantha fortuneana</i>	lolendei monrovia pyracantha	C, F
	monon pyracantha	F
	red elf hybrid pyracantha	F
	rutgers hybrid pyracantha	C, F
	santa cruz pyracantha	C, F
	victory pyracantha	F
<i>Raphiolepis indica</i>	charisma-monruce raphiolepis	C, F
	enchantress-moness raphiolepis	F

	raphiolepis (India hawthorn)	C, F
	springtime-monme raphiolepis	F
<i>Raphiolepis ovata</i>	roundleaf raphiolepis	C, F
<i>Rhododendron calendulaceum</i>	cannon's double azalea	C, F
	flame azalea	F
	golden flare azalea	C, F
	klondike azalea	C, F
<i>Rhododendron campylocarpum</i>	butterfly rhododendron	F
<i>Rhododendron carolinianum x daurium</i>	PJM rhododendron	C, F
<i>Rhododendron catawbiense</i>	catawba album rhododendron	C, F
	catawba rhododendron	C, F
	lord roberts rhododendron	C, F
	rocket rhododendron	C, F
<i>Rhododendron caucasicum x ponticum</i>	cunningham white rhododendron	C, F
<i>Rhododendron exbury</i>	cannon's double azalea	C, F
	golden flare azalea	C, F
	klondike azalea	C, F
<i>Rhododendron forrestii repens</i>	gomer waterer rhododendron	C, F
<i>Rhododendron forrestii x griersonianum</i>	elizabeth rhododendron	C, F
<i>Rhododendron griffithianum</i>	jean marie rhododendron	C, F
<i>Rhododendron hybrid spp.</i>	America rhododendron	C, F
	English roseum rhododendron	F
	nova zembla rhododendron	C, F
	scintillation rhododendron	C, F
<i>Rhododendron impeditum</i>	rhododendron	C, F
<i>Rhododendron indica</i>	formosa azalea	C, F
<i>Rhododendron indica</i>	waucabusa azalea	C, F
<i>Rhododendron kaempferi</i>	blue danube azalea	C, F
<i>Rhododendron kerume</i>	coral bells azalea	C, F
	hino crimson azalea	C, F
	hino pink azalea	C, F
	mildred azalea	C, F
	snow azalea	C, F
<i>Rhododendron maximum</i>	rhodie max (rosebay)	C, F
<i>Rhododendron mucronulatum</i>	rhododendron	F
<i>Rhododendron obtusum</i>	hino-crimson azalea	C, F
<i>Rhododendron ponticum</i>	chioniodes rhododendron	C, F
<i>Rhododendron ponticum</i>	daphinoides rhododendron	C, F
<i>Rhododendron x 'purple gem'</i>	purple gem rhododendron	C, F
<i>Rhododendron racemosum</i>	dwarf scarlet wonder rhododendron	C, F
	tribly rhododendron	C, F
	unique rhododendron	C, F
	vulcan rhododendron	C, F
<i>Rhododendron sassthigiatim x carolinianum</i>	<i>ramapo rhododendron</i>	C, F
<i>Rhododendron satuski</i>	gumpo pink azalea	C, F
	higasa azalea	F
	reijn azalea	C, F
<i>Rhododendron spp. hybrids</i>	carror azalea	C, F
	fashion azalea	C, F
	gerard christina azalea	F
	girard roberta azalea	C, F
	golden flare exbury azalea	F
	helmut vogel azalea	F
	hershey red azalea	F
	hot shot azalea	C, F
	hume azalea	F
	inga azalea	F
	irene koster azalea	C, F
	president clay azalea	C, F
	tradition azalea	C, F
<i>Rhus lancea</i>	sumac, African	C, F

<i>Rosa rugosa</i>	ramanas rose	C, F
<i>Rosmarinus officinalis</i>	rosemary	F
<i>Senecio cineraria</i>	dusty-miller/silver ragweed	C, F
<i>Skimmia japonica</i>	Japanese skimmia	C, F
<i>Skimmia revesiana</i>	reeve's skimmia	C, F
<i>Solanum rantonetii</i>	Paraguay nightshade	C, F
<i>Spiraea bumalda</i>	anthony waterer spiraea	C, F
<i>Spiraea x cinerea 'Grefsheim'</i>	first snow spiraea	
<i>Spiraea japonica</i>	dolchia spiraea	C, F
	Japanese alpine spiraea	C, F
	shirobana spiraea	C, F
<i>Spiraea vanhouttei</i>	bridal wreath	C, F
<i>Syringa rothomagensis</i>	Chinese lilac	C, F
<i>Syringa vulgaris</i>	lilac, common	F
<i>Taxus cuspidata</i>	yew, Japanese	F
<i>Tecomaria capensis</i>	cape honeysuckle	C, F
<i>Ternstroemia gymnanthera</i>	ternstroemia, Japanese	C, F
<i>Thuja occidentalis</i>	emerald arborvitae	C, F
	globosa-globe arborvitae	C, F
	little giant-dwarf arborvitae	C, F
	nigra-dark American arborvitae	C, F
	pyramidalis arborvitae	C, F
	rheingold arborvitae	C, F
	techny arborvitae	F
<i>Thuja occidentalis</i>	woodwardii arborvitae	C, F
<i>Thuja orientalis</i>	aureus nana-dwarf golden arborvitae	C, F
	minima glauca-dwarf arborvitae	C, F
<i>Veitchia merrilli</i>	Christmas palm	F
<i>Viburnum bodnantense</i>	pink dawn viburnum	C, F
<i>Viburnum carlesii</i>	Koreanspice viburnum	C, F
<i>Viburnum davidii</i>	david viburnum	C, F
<i>Viburnum japonicum</i>	viburnum	F
<i>Viburnum judd (v. X juddii)</i>	viburnum	C, F
<i>Viburnum lantana</i>	wayfaring tree	F
<i>Viburnum opulus sterile</i>	common snowball viburnum	F
<i>Viburnum plicatum tomentosum</i>	doublefile viburnum	C, F
<i>Viburnum setigerum</i>	tea viburnum	F
<i>Viburnum tinus compactum</i>	spring bouquet viburnum	F
<i>Viburnum trilobum</i>	cranberry bush	C, F
<i>Viburnum trilobum compactum</i>	dwarf cranberry bush	C, F
<i>Viburnum x pragense</i>	viburnum	C, F
<i>Weigela florida</i>	bristol ruby weigela	C, F
	java red weigela	C, F
	minuet weigela	C, F
<i>Xylosma congestum</i>	xylosma	F
<i>Yucca filamentosa</i>	yucca	C, F

## Groundcovers/Perennials

## Recommended Treatment Method:

C = Container Grown

F = Field Grown

Scientific Name	Common Name	
<i>Achillea millefolium</i>	common yarrow	C, F
<i>Agapanthus africanus</i>	lily of the Nile	C, F
<i>Agapanthus "Peter Pan"</i>		C, F
<i>Alstroemeria aurea</i>	Peruvian lily	C, F
<i>Ammophila breviligulata</i>	beechgrass	C, F
<i>Antirrhinum majus</i>	snapdragon	C, F
<i>Arctotheca calendula</i>	cape weed	F
<i>Argyranthemum frutescens</i>	Paris daisy	C, F
<i>Artemisia schmidtiana</i>	angels' hair	C, F
<i>Asparagus retrofractus</i>	fern	C, F

<i>Asteriscus maritimus</i>	gold coin daisy	C, F
<i>Astilbe Deutschland</i>	deutschland astilbe	C, F
<i>Asparagus retrofractus</i>		C, F
<i>Asparagus variegata</i>	tree fern	C, F
<i>Aster novae-angliae</i>	New England aster	C, F
<i>Aster novi-belgii</i>	New York aster	C, F
<i>Begonia cordifolia</i>	heartleaf begonia	C, F
<i>Begonia semperflorens</i>	white ambassador begonia	C, F
<i>Bidens ferulifolia</i>	peter's gold bidens	C, F
<i>Brachycome x 'New amethyst'</i>	swan river daisy new amethyst	C, F
<i>Callistephus chinensis</i>	China aster	C, F
<i>Carex</i> spp.	sedge	C, F
<i>Carpobrotus edulis</i>	ice plant, largeleaf	F
<i>Catharanthus roseus</i>	Madagascar periwinkle	C, F
<i>Cerastium tomentosum</i>	snow in the summer	C, F
<i>Ceratostigma plumbaginoides</i>	dwarf plumbago	C, F
<i>Chrysanthemum morifolium</i>	florist's chrysanthemum	C, F
<i>Chrysanthemum</i> sp.	chrysanthemum species	C, F
<i>Clematis integrifolia caerulea</i>	blue bell clematis	C, F
<i>Clivia miniata</i>	kafir lily	C, F
<i>Coreopsis verticillata</i>	coreopsis, threadleaf	C, F
<i>Cortaderia selloana</i>	pampas grass	C, F
<i>Cuphea hyssopifolia</i>	false or Mexican heather	C, F
<i>Cyperus albostrigatus</i>	dwarf umbrella grass	C, F
<i>Dahlia x 'Royal dahlietta pink'</i>	dwarf dahlia wendy pink	C, F
<i>Delosperma alba</i>	white iceplant	F
<i>Descampsia caespitosa</i>	descampsia	C, F
<i>Dianthus gratianopolitanus</i>	crimson treasure cheddar pink	C, F
<i>Dietes vegeta</i>	fortnight lily	C, F
<i>Drosanthemum floribundum</i>	trailing rosea iceplant	F
<i>Drosantheumum hispidum</i>	iceplant	C, F
<i>Ensete ventricosum</i>	red abyssinian banana	C, F
<i>Equisetum scirpoides</i>	dwarf horsetail	C, F
<i>Erianthus ravennae</i>	hardy pampasgrass	C, F
<i>Erysimum "Bowles mauve"</i>	wallflower	C, F
<i>Euryops pectinatus</i>	dwarf euryops	C, F
<i>Eustoma grandiflorum</i>	pink lisianthus	C, F
<i>Festuca ovina glauca</i>	blue fescue	C, F
<i>Fuchsia x 'Santa Claus'</i>	santa claus fuchsia	C, F
<i>Gaillardia aristata</i>	blanket flower	C, F
<i>Gaillardia grandiflora</i>	goblin blanket flower	C, F
<i>Gaura lindheimeri</i>	gaura	C, F
<i>Gazania rigens leucolaena</i>	gazania, trailing	C, F
<i>Gazania</i> spp.	gazania	C, F
<i>Geranium incanum</i>	cranesbill	C, F
<i>Geranium subcaulescens</i>	blackeyed magenta cranesbill	C, F
<i>Hakonechloa macroaureola</i>	golden hakonechloa	C, F
<i>Hedera canariensis</i>	ivy, Algerian	F
<i>Hedera helix</i>	ivy, English	C, F
<i>Helichrysum petiolatum</i>	white licorice plant	C, F
<i>Hemerocallis</i> spp.	daylily	C, F
<i>Hesperaloe parviflora</i>	red yucca	C, F
<i>Heuchera americana</i>	palace purple	C, F
<i>Heuchera micrantha</i>	coral bells	C, F
<i>Hippeastrum hybrid</i>	amaryllis	C, F
<i>Hosta 'Francee'</i>	francee plantain lily	C, F
<i>Hosta lancifolia</i>	albo-marginata hosta	C, F
<i>Hosta 'Patriot'</i>	patriot plantain lily	C, F
<i>Hymenoxys acaulis</i>	angelita daisy	C, F
<i>Hypericum</i> spp.	St. Johnswort	C, F
<i>Impatiens wallerana</i>	busy lizzie	C, F
<i>Iris pumila</i>	yellow dwarf bearded iris	C, F
<i>Iris siberica</i>	blue siberian iris	C, F
<i>Jasminum nitidum</i>	angelwing jasmine	C, F

<i>Lampranthus spectabilis</i>	trailing iceplant	F
<i>Leptospermum scoparium</i>	broom teatree/manuka	C, F
<i>Liatris spicata</i>	gay feather	C, F
<i>Limonium perezii</i>	statice	C, F
<i>Liriope gigantea</i>	white lily turf	C, F
<i>Liriope muscari</i>	lilac beauty lily turf	C, F
	majestic lily turf	C, F
	monroe white lily turf	C, F
	silvery sunproof lily turf	C, F
	variegated liriope lily turf	C, F
	big blue lily turf	C, F
<i>Liriope spicata</i>	green/creeping lily turf	C, F
<i>Lobelia erinus</i>	lobelia	C, F
<i>Lobularia maritima</i>	sweet alyssum	C, F
<i>Lonicera japonica</i>	honeysuckle, Japanese	F
<i>Lysimachia punctata</i>	dotted loosestrife	C, F
<i>Mathiola incana</i>	stock	C, F
<i>Miscanthus sinensis</i>	eulalia grass	C, F
<i>Monarda didyma</i>	bee balm	C, F
<i>Moraea iridiodes</i>	African iris	C, F
<i>Oenothera speciosa</i>	siskiyou evening primrose	C, F
<i>Ophiopogon japonicus</i>	dwarf mondo grass	C, F
	mondo grass	C, F
<i>Osteospermum fruticosum</i>	freeway daisy	C, F
<i>Pachysandra terminalis</i>	Japanese spurge	C, F
<i>Parthenocissus quinquefolia</i>	Virginia creeper	C, F
<i>Pelargonium x hortorum</i>	zonal geranium	C, F
<i>Pelargonium peltatum</i>	ivy geranium	C, F
<i>Pennisetum alopecuroides</i>	fountain grass	C, F
<i>Pennisetum setaceum</i>	chrimson fountaingrass	C, F
<i>Pentas lanceolata</i>	star cluster	C, F
<i>Penstemon x 'Apple blossom'</i>	apple blossom penstemon	C, F
<i>Penstemon gentianoides</i>	hartwig penstemon	C, F
<i>Perovskia atriplicifolia</i>	Russian sage	C, F
<i>Petunia-hybrids</i>	garden petunias	C, F
<i>Phalaris arundinacea picta</i>	ribbon grass	C, F
<i>Ratibida columnifera</i>	Mexican hat	C, F
<i>Rudbeckia fulgida</i>	blackeyed susan	C, F
<i>Rudbeckia hirta</i>	blackeyed susan	C, F
<i>Ruellia brittoniana</i>	dwarf katie ruellia	C, F
<i>Salvia grahamii</i>	graham's sage	C, F
<i>Salvia leucantha</i>	Mexican bush sage	C, F
<i>Sedum x 'Autumn joy'</i>	autumn joy stonecrop	C, F
<i>Sedum x 'Vera jameson'</i>	vera jameson stonecrop	C, F
<i>Targetes patula 'Little hero'</i>	little hero marigold	C, F
<i>Trachelospermum asiaticum</i>	asian jasmine	C, F
<i>Tulbaghia violacea</i>	society garlic	C, F
<i>Verbena peruviana</i>	st. paul verbena	C, F
<i>Vinca major</i>	periwinkle, bigleaf	C, F
<i>Vinca minor</i>	periwinkle, dwarf	F
<i>Vinca spp.</i>	periwinkle	F
<i>Zinnia elegans</i>	dwarf zinnia	C, F



## Non-Bearing Fruit and Nut Trees Non-bearing Vineyards<sup>1</sup>

**Recommended  
Treatment Method:**  
C = Container Grown  
F = Field Grown

### 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
lemon	F
loganberry	F
macadamia nut	F
nectarine	F
olive	F
orange	F
peach	F
pear	F
pecan	F
pistachio	F
plum	F
pomegranate	F
prune	F
raspberry	F
walnut, black	F
walnut, English	F

<sup>1</sup>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.

## Ornamental Bulbs

Do not use this product in bulb production fields. For use in landscape settings only.

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

### Special Use Precautions:

Do not apply to tulip plants that have emerged to a height greater than 3/4 inch.

Do not apply to gladiolus prior to emergence or if corms are less than one inch in diameter.

Do not apply to bulbs while they are flowering.

## Shadehouse Areas

This product may be applied in open shadehouse-type structures where the natural flow of air is unimpeded. Do not apply in enclosed greenhouses or in enclosed shadehouse-type structures. Do not apply within three weeks prior to enclosing greenhouse or poly-type structures.

## Non-Cropland

This product is recommended as a preemergence treatment for control of certain broadleaf weeds and annual grasses on non-cropland areas such as industrial sites, utility substations, highway guardrails, sign posts, delineators, etc. Apply this product anytime 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.

Refer to the General Information section of this label for General Use Precautions and information on Application, Application Rates, and Weeds Controlled.

<b>Spreader Settings</b>						
These spreader settings are not intended to replace calibration. Please calibrate your spreader before applying product.						
XX lbs. treats X,XXX sq. ft. at the 125 lbs. product/acre - LIGHT RATE (3.0 lbs./1,000 sq. ft. rate)						
XX lbs. treats X,XXX sq. ft. at the 150 lbs. product/acre - LOW RATE (3.5 lbs./1,000 sq. ft. rate)						
XX lbs. treats X,XXX sq. ft. at the 175 lbs. product/acre - MEDIUM RATE (4.0 lbs./1,000 sq. ft. rate)						
XX lbs. treats X,XXX sq. ft. at the 200 lbs. product/acre - HIGH RATE (4.5 lbs./1,000 sq. ft. rate)						
SPREADER	GROUND SPEED	WIDTH OF COVERAGE	SPREADER SETTINGS			
			LIGHT 0.25 lbs. ai/A	LOW 0.30 lbs. ai/A	MEDIUM 0.35 lbs. ai/A	HIGH 0.40 lbs. ai/A
aa	X mph	XX ft/	X	X	X	X
bb	X mph	XX ft	X	X	X	X
cc	X mph	XX ft	X	X	X	X

Note:.. This list of spreaders and settings will vary dependent on market availability of spreaders. (this note will not appear on final label)

Note: These spreader settings were established using standard equipment available from the spreader manufacturer at swath widths and speeds typically used within the industry. It is recommended that all spreader equipment be calibrated at the time of application to achieve the desired application rate.

**IMPORTANT: READ BEFORE USE:**

Read the entire Directions for Use and the Warranty Disclaimer and Limitation of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or Buyer accepts the following Warranty Disclaimer and Limitation of Liability:

**WARRANTY DISCLAIMER and LIMITATION of LIABILITY:**

Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions. To the extent consistent with applicable law manufacturer makes NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. To the extent consistent with applicable law, it is Manufacturer's intent to LIMIT ANY LIABILITY FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL ECONOMIC DAMAGES to refund of purchase price or replacement of product, at Buyer's choice. To the extent consistent with applicable law, Manufacturer DISCLAIMS ANY LIABILITY FOR COMPENSATORY OR OTHER DAMAGES ARISING OUT OF ANY USE CONTRARY TO LABEL DIRECTIONS. Use contrary to label directions is not permitted.

**LEGAL RIGHTS:**

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS; YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE/JURISDICTION TO STATE/JURISDICTION.

Manufactured by:  
The Andersons, Inc.,  
PO Box 119  
Maumee, OH 43537

{website address}  
SGN XXX

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