



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

EPA Reg.  
Number:  
62719-  
516

Date of Issuance:  
**JUL - 7 2004**

NOTICE OF PESTICIDE:

X Registration  
Reregistration

(under FIFRA, as amended)

Term of Issuance:  
Conditional

Name of Pesticide Product:  
GF-1162

Name and Address of Registrant (include ZIP Code):

Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268

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

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

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

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

1. Add the phrase "EPA Registration No.62719-516 to the label before you release the product for shipment.

COMMENTS CONTINUED ON PAGE 2 OF THIS NOTICE OF REGISTRATION

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

Enclosure

Joanne I. Miller  
Product Manager (23)  
Herbicide Branch  
Registration Division (7505C)

Signature of Approving Official:

/SI

Date:

**JUL - 7 2004**

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Comments Continued:

2. Add to the front panel following the listing of the use sites the statement: " For Commercial Use Only".
  3. Revise the precautionary statements to read: "Harmful if absorbed through skin. Harmful if inhaled. Avoid breathing dust. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Wear long-sleeved shirt and long pants, socks shoes and chemical-resistant gloves (such as Barrier Laminate, Viton, Selection Category G). Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals."
  4. Rearrange the "First Aid" section by listing them in the following order: "If on skin", " If inhaled", "If in eyes".
  5. Submit the following data required for the registration of this pesticide product within 1 year of the date of this Notice of Registration:

<u>EPA Guideline Data Number</u>	<u>Guideline Descriptor</u>
830.6317	Storage Stability Study
830.6320	Corrosion Characteristics
  6. Revise the "User Safety Recommendations" by adding: "Remove contaminated clothing and wash clothing before reuse."
  7. Submit an analytical sample of this pesticide product along with the analytical method identified with the EPA MRID No. 461838-01 to the EPA Analytical Laboratory at Ft. Mead, MD. If there are any special equipment needed to test the method of analysis, please submit the information to the laboratory. Send the sample to the EPA "Office of Analytical Services and Quality Assurance, Environmental Science Center, 701 Maples Road, Fort Meade, Md 20755-5350.
  8. Revise the "Agricultural Use Requirements" section by giving the restricted entry interval (REI) as 24 hours, the longest interval based on the REI for oxyfluorfen. And, delete the statement: "The REI for each crop is listed in the directions for use associated with each crop".
  9. Add an EPA establishment number to the label.
  10. Either delete the claim "Specialty Herbicide", or add to that claim: "For use by landscape, nursery and vegetation control trade.", as a modifier of that claim.
  11. Submit one (1) copy of the final printed labeling before you release this product for shipment
  12. Submit and/or cite all data required for the registration of this product when the Agency requires all registrants of similar products to submit data; and submit acceptable responses required for reregistration of this product under FIFRA, section 4.
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(Front panel):

(logo) Dow AgroSciences

## GF-1162

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

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

**Active Ingredients:**

trifluralin: $\alpha,\alpha,\alpha$ -trifluoro-2,6-dinitro- <i>N</i> , <i>N</i> -dipropyl- <i>p</i> -toluidine .....	2.00%
isoxaben: <i>N</i> -[3-(1-ethyl-1-methylpropyl)-5- isoxazolyl]-2,6-dimethoxybenzamide and isomers .....	0.25%
oxyfluorfen: 2-chloro-1-(3-ethoxyl-4- nitrophenoxy)-4-(trifluoromethyl) benzene ...	0.25%
Inert Ingredients .....	97.50%
Total .....	100.00%

Contains 1.25 lb active ingredient per 50 lb bag.

U.S. Patents 4,636,243 and 5,086,184.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated  
**JUL - 7 2004**

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

62719-516

**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.)

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### Precautionary Statements

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#### Hazards to Humans and Domestic Animals

**Causes Moderate Eye Irritation • Harmful If Absorbed Through Skin Or Inhaled • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reaction In Some Individuals**

**Avoid breathing dust or spray mist and contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.**

#### Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate and viton ( $\geq 14$  mils). If you want more options, follow the instructions for category G on an EPA chemical-resistance category selection chart.

**Mixers, loaders, applicators and other handlers must wear:**

- Coveralls over long-sleeved shirt and long pants

- Chemical-resistant footwear plus socks
- Chemical-resistant gloves
- Chemical-resistant apron for mixers and loaders

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### 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 on skin:** 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 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 1-800-992-5994 for emergency medical treatment information.

### Environmental Hazards

This product is extremely toxic to freshwater marine, wildlife, and estuarine fish and aquatic invertebrates including shrimp and oyster. Do not apply in a manner which will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. 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 contaminate water when disposing of equipment washwaters.

### 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 back panel for Directions for Use including Storage and Disposal.**

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at [www.dowagro.com](http://www.dowagro.com).

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

EPA Reg. No. 62719-XXX

EPA Est. \_\_\_\_\_

**Dow AgroSciences LLC • Indianapolis, IN 46268 U.S.A.**

**Specialty Herbicide**

**Net Weight \_\_ lb**

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(Back panel):

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**Directions for Use**

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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 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 workers to enter during the restricted entry interval (REI). The REI for each crop is listed in the directions for use associated with each crop.

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 made of any waterproof material.
- 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:** Store in original container only. In case of spill, contain material and dispose as waste.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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**General Information**

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GF-1162 specialty herbicide is a preemergence product for control of certain broadleaf weeds and annual grasses in container and landscape ornamentals, nursery stock, Christmas trees, ground covers/perennials, non-bearing fruit and nut trees, non-bearing vineyards and non-cropland areas. Apply GF-1162 anytime prior to germination of target weeds, or immediately after cultivation. Length of weed control will vary with rate of GF-1162 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.

### **Use Precautions and Restrictions**

**In Arizona:** The state of Arizona has not approved GF-1162 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.

GF-1162 controls weeds growing from seed. GF-1162 does not control established weeds, weeds growing from stolens, 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 GF-1162. Optimum weed control is obtained when GF-1162 is activated within 3 days of application. If rainfall or irrigation does not occur within 3 days of application and tillage is possible, GF-1162 may be activated using cultivation equipment capable of uniformly mixing the herbicide into the upper 1-2 inches of soil. Failure to activate GF-1162 within 3 days of application may result in erratic control of annual grasses. Do not apply when wind conditions favor drift of GF-1162 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 GF-1162. Do not apply over 600 lb per acre total of GF-1162 within a 12 month period.

**Tolerance of Turfgrass Adjacent to Ornamental Plantings:** Accidental application to turf may occur when applying GF-1162 to ornamental plantings. GF-1162 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.

Do not aerially apply GF-1162.

### **Treatment Species Not Listed on the Label for GF-1162**

Users who wish to use GF-1162 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 GF-1162 on plant species not recommended on this label.

### **Application Instructions**

Apply GF-1162 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 GF-1162**

- 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.

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- 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 GF-1162.

**GF-1162 Broadcast Rates**

Rate lb/Acre	Amount/1000 sq ft		Amount/100 sq ft	
	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 GF-1162 = 0.75 quart = 3 cups

**Spreader Settings as a Guide for Calibration**

[Editor's note: Commercial label may include a table of recommended spreader equipment and spreader settings.]

**Note:** These settings are provided as a suggested starting point in calibrating each individual spreader. Since no two spreaders are alike, these settings are not intended to be used as absolute recommendations by Dow AgroSciences or the spreader manufacturer.

Speed (mph)	Settings for Spreader		
	Recommended Rate of GF-1162		
	100 lb/acre	150 lb/acre	200 lb/acre
2.0	XX	XX	XX
2.5	XX	XX	XX
3.0	XX	XX	XX

[Editor's note: The following text should be included if settings for a Warren T-7 II Spreader are included.]

Warren spreader settings are displayed in half-number increments only. The suggested settings that indicate quarter settings can be accomplished by placing the calibration arm between the half number marks on the spreader.

**Weeds Controlled or Suppressed by GF-1162**

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

Common Name	Scientific Name
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>

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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>
lambquarters, 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</i>
	<i>dichotomiflorum</i>
pepperweed, Virginia	<i>Lepidium virginicum</i>
pigweed	<i>Amaranthus</i> spp.
pineappleweed	<i>Matricaria</i>
	<i>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</i>
	<i>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>

In addition to the weeds listed at the 100 lb/acre rate, the following weeds will be controlled at 150 lb/acre (3.5 lb/1000 sq ft):

Common Name	Scientific Name
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>
ladythumb	<i>Polygonum persicaria</i>
lettuce, prickly	<i>Lactuca serriola</i>
lovegrass	<i>Eragrostis</i> spp.
mallow, common	<i>Malva neglecta</i>
mallow, dwarf	<i>Malva rotundifolia</i>
maretail	<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>

In addition to the weeds listed at the 100 lb/acre and 150 lb/acre rates, the following weeds will be controlled at 200 lb/acre (4.6 lb/1000 sq ft):

Common Name	Scientific Name
barley, hare	<i>Hordeum leporinum</i>
bedstraw, catchweed	<i>Galium aparine</i>
bromegrass	<i>Bromus</i> spp.
buckwheat, wild	<i>Polygonum convolvulus</i>
burclover, California	<i>Medicago polymorpha</i>
carpetweed	<i>Mollugo verticillata</i>
cheat	<i>Bromus secalinus</i>
clover, red	<i>Trifolium pratense</i>
cocklebur, common	
datura	<i>Datura</i> spp.
dogfennel	<i>Eupatorium capillifolium</i>
eveningprimrose	<i>Oenothera</i> spp.
fescue, rattail	<i>Vulpia myuros</i>
filaree, broadleaf	
filaree, whitestem	<i>Erodium moschatum</i>
flixweed	
goosefoot, nettleleaf	<i>Chenopodium murale</i>
goosegrass	<i>Eleusine indica</i>
groundcherry, cutleaf	
groundcherry, wright	
jimsonweed	<i>Datura stramonium</i>
knotweed, silversheath	<i>Polygonum</i>

	<i>argyrocoleon</i>
kochia	<i>Kochia scoparia</i>
medic, black	<i>Medicago lupulina</i>
minerslettuce	
mullein, turkey	<i>Eremocarpus setigerus</i>
mustard, blue	
mustard, tumble	<i>Sisymbrium altissimum</i>
nettle, burning	<i>Urtica urens</i>
nettle, stinging	<i>Urtica dioica</i>
nightshade, hairy	
orach, red	
ox tongue, bristly	<i>Picris echioides</i>
pepperweed, yellowflower	
pimpernel, scarlet	<i>Anagallis arvensis</i>
redmaids	
sandbur, field	<i>Cenchrus incertus</i>
sandspurry, red	<i>Spergularia rubra</i>
signalgrass	<i>Brachiaria</i> spp.
sowthistle, spiny	<i>Sonchus asper</i>
spedwell, birdseye	
spurge, petty	<i>Euphorbia peplus</i>
spurge, prostrate	<i>Euphorbia humistrata</i>
spurry, corn	<i>Spergula arvensis</i>
stinkgrass	<i>Eragrostis cilianensis</i>
sunflower	<i>Helianthus</i> spp.
swinecress	<i>Coronopus didymus</i>
thistle, bull	<i>Cirsium vulgare</i>
thistle, musk	<i>Carduus nutans</i>
willoweed, panicle	<i>Epilobium paniculatum</i>
woodsorrel, creeping	<i>Oxalis corniculata</i>

In addition to the weeds controlled, the following weeds will be partially controlled or suppressed at 200 lb/acre (4.6 lb/1000 sq ft):

Common Name	Scientific Name
bindweed, field	<i>Convolvulus arvensis</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

**Worker Restricted Entry Interval:** Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

GF-1162 is recommended as a preemergence application 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 GF-1162 anytime prior to germination of target weeds or immediately after cultivation.

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

### Special Use Precautions

To avoid possible injury, do not apply GF-1162 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 4 inches wide.
- bedding plants or areas where bedding plants will be planted or transplanted within 1 year following application.
- ground covers until they are established and well rooted.

Do not apply GF-1162 to newly transplanted ornamentals, nursery stock, Christmas trees, ground covers, 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 GF-1162. Do not apply over 600 lb per acre total of GF-1162 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 GF-1162 and use is not recommended.**

*Acanthus mollis* (oak leaf acanthus)  
*Ajuga* spp. (bugle)  
*Arenaria montana* (mountain sandwort)  
*Brassica* spp. (mustard)  
*Dicentra luxuriant* (luxuriant bleeding heart)  
*Digitalis purpurea* (foxglove)  
*Echinacea purpurea* (purple coneflower)  
*Euonymus alatus 'compacta'* (dwarf burning bush)  
*Euphorbia* spp. (spurge)  
*Geranium cinereum 'Ballerina'* (ballerina cranesbill)  
*Gypsophila paniculata* (white festival baby's breath)  
*Hydrangea* spp. (hydrangea)  
*Iberis* spp. (candytuft)  
*Juniperus horizontalis 'Prince of Wales'* (Prince of Wales juniper)  
*Melaleuca quinquenervia* (cajeput tree)  
*Phlox paniculata* (summer phlox)  
*Pulmonaria longifolia* (Bertram Anderson lingwort)  
*Rhododendron carolinianum* (Carolina rhododendron)  
*Rhododendron catawbiense 'Roseum elegans'* (Roseum elegans rhododendron)  
*Sedum* spp. (stonecrop)  
*Vinca minor 'Atropurpurea'* (wine periwinkle)  
*Yucca recurvifolia* (green yucca)

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**GF-1162 may be used on the following established plant species (Note: Limitations on recommended treatment methods):**

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

<b>Scientific Name</b>	<b>Common Name</b>	
<i>Abies balsamea</i>	Fir, balsam	C, F
<i>Abies concolor</i>	Fir, white	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	
<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 strawberry	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>	Ficus	C, F
	Mini ficus	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

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<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
	Glaucous-Colorado blue spruce	C, F
	Hoop's-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>	Californian 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 mahogany</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>Astilbe arendsii</i>	false spiraea	C, F
<i>Astilbe chinensis</i>	Astilbe/false spirea	C, F
<i>Athyrium nipponimcum</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>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
<i>Chamaecyparis pisifera</i> spp.	Squarrosa Minima cypress	C, F
<i>Chrysalidocarpus lutescens</i>	Filifera-thread cypress	C, F
<i>Clethra alnifolia</i>	Areca palm	F
<i>Cleyera japonica</i>	Summersweet	C, F
<i>Coleonema pulchrum</i>	Cleyera, Japanese	C, F
<i>Convolvulus cneorum</i>	Pink breath of heaven	C, F
<i>Cornus alba</i>	Bush morning glory	C, F
<i>Cornus stolonifera</i>	Sibirica-Siberian dogwood	C, F
	Baileyi-red-osier dogwood	F
	Flaviramea-yellowtwig dogwood	F
<i>Cotinus coggygia</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.	Hollandia-Scotch broom	F
<i>Deutzia crenata</i>	Nakiana-dwarf deutzia	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>Eugenia myrtifolia</i>	Dwarf brush cherry	C, F
<i>Euonymus</i> x 'Aureo variegatus'	Gold spot euonymus	C, F
<i>Euonymus</i> x 'Chollipo'	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>	Dwarfeuryops	C, F
<i>Fatsyhedera japonica</i>		C, F
<i>Fatsia japonica</i>	Japanese aralia	C, F
<i>Felicia ameloides</i>	Blue marguerite	C, F
<i>Forsythia intermedia</i>	Forsythia, border	C, F
<i>Forsythia</i> x 'Spring glory'	Spring glory forsythia	C, F
<i>Gaultheria shallon</i>	Salal/lemon leaf	C, F
<i>Gelsemium sempervirens</i>	Carolina jessamine	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
	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	

<i>Ilex vomitoria</i>	Ebony magic holly	F
	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
<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>	Crape myrtle	C, F
<i>Lantana spp.</i>	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>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

<i>Lonicera sempervirens</i>	Serotina woodbine	C, F
<i>Mahonia aquifolium compacta</i>	Trumpet honeysuckle	C, F
<i>Mahonia bealei</i>	Dwarf Oregon grape	C, F
<i>Mahonia repens</i>	Leather leaf mahonia	C, F
<i>Myrica cerifera</i>	Creeping mahonia	C, F
<i>Nerium oleander</i>	Wax myrtle	C, F
	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 pittosporum	C, 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
	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

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<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>	Chionoides rhododendron	C, F
<i>Rhododendron ponticum</i>	Daphnoides 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>	Ramapo rhododendron	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
	Hersey 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>Senecio cineraria</i>	Dusty-miller/silver ragweed	C, F
<i>Skimmia japonica</i>	Japanese 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

<i>Spiraea vanhouttei</i>	Shirobana spiraea	C, F
<i>Syringa rothomagensis</i>	Bridal wreath	C, F
<i>Syringa vulgaris</i>	Chinese lilac	C, F
<i>Taxus cuspidata</i>	Lilac, common	F
<i>Tecomaria capensis</i>	Yew, Japanese	F
<i>Ternstroemia gymnanthera</i>	Cape honeysuckle	C, F
<i>Thuja occidentalis</i>	Ternstroemia, Japanese	C, F
	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 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>Xylosma congestum</i>	Xylosma	F
<i>Yucca filamentosa</i>	Yucca	C, F

**Groundcovers/Perennials****Recommended Treatment Method:****C = Container Grown****F = Field Grown**

<b>Scientific Name</b>	<b>Common Name</b>	
<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>Carpobrotus edulis</i>	Ice plant, largeleaf (see label)	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 sp.</i>	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 albostratus</i>	Dwarf umbrella grass	C, F
<i>Dahlia x 'Royal dahlia 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>Drosanthemum 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 spp.</i>	Gazania	C, F
<i>Geranium incanum</i>	Cranesbill	C, F
<i>Geranium subcaulescens</i>	Black eyed 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 spp.</i>	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 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 spp.</i>	St. Johnswort	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>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>Monarda didyma</i>	Bee balm	C, F
<i>Moraea iridioides</i>	African iris	C, F
<i>Oenothera speciosa</i>	Siskiyow 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>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>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  
Tree and Non-Bearing  
Vineyards† (Dormant  
Application)**

**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

†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 GF-1162 in bulb production fields. For use in landscape settings only.

GF-1162 may be applied for control of susceptible annual weeds in ornamental bulbs, e.g., bulbous iris, daffodil (narcissus), hyacinth and tulip. Apply GF-1162 to the soil surface 2 to 4 weeks after planting but prior to the emergence of annual weeds. GF-1162 may also be applied following bulb emergence but prior to flowering and after flowering. For fall planted bulbs, apply GF-1162 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 1 inch in diameter.

Do not apply to bulbs while they are flowering.

### Shadehouse Areas

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GF-1162 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 3 weeks prior to enclosing greenhouse or poly-type structures.

### **Non-Cropland**

GF-1162 is recommended as a preemergence application 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 GF-1162 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 Use Precautions and information on Application, Application Rates, and Weeds Controlled.

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