

62719-579

11/19/2009

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



Office of Pesticide Programs

Dow Agro Sciences
9330 Zionsville Rd.
Indianapolis, IN 46268-1054

NOV 19 2009

Subject: Label Amendment
EPA Reg. No.: 62719-579
GF-2003

Dear Mr. Jachetta,

The Agency has received your application for an amendment to the registration for the above product, dated August 4, 2009. The label described above, submitted under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable, provided the following modifications are made:

1. Restricted Entry Interval: This product requires a REI of 48 hours, based on the Category I acute primary eye irritation toxicity of the technical-grade active ingredient. Please add this information to the Agricultural Use Requirements box whenever it appears on the label.

This labeling supersedes all previous accepted labeling for this product. Please submit one (1) copy of the final printed label before the product is released for shipment. A stamped copy of the accepted label is enclosed for your records. If you have any questions, please contact Kathryn Montague (703-305-1243 or montague.kathryn@epa.gov).

Sincerely,

Kathryn V. Montague
Product Manager 23
Herbicide Branch
Registration Division (7505P)

S5E / GF-2003 / Amend / 07-15-09
file: GF-2003-579 15Jul09dblack.doc

GF-2003

EPA Reg. No. 62719-579

Registration Notes:

Source section 3 labeling based on EPA accepted label dated October 2, 2007. Following are changes by amendment:

1. Cover and Base Label: added advisory and graphics to prevent injury to desirable plants
2. Use Precautions and Restrictions:
 - a. added advisory and graphics to prevent injury to desirable plants.
 - b. added restriction on grasses grown for hay intended for export
 - c. changed lawn/ornamental restriction from "should not be applied" to "Do not apply" and added "turf" to restriction
 - d. added restriction on grasses grown for seed production.
 - e. added restriction on grazing poisonous plants
3. Removed reference to company website
4. Revised Storage and Disposal per PR Notice 2007-4

E-SUBMISSION

ACCEPTED
with COMMENTS
In EPA Letter Dated:

(Base label):

NOV 19 2009
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

GF-2003

Herbicide

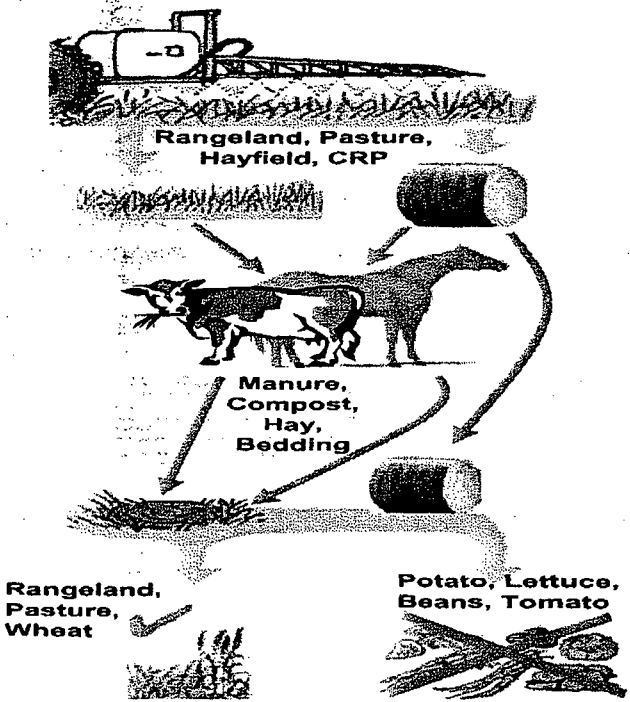
102719-579

For selective post-emergence control of many broadleaf weeds in rangeland, permanent grass pastures (including grasses grown for hay), established Conservation Reserve Program (CRP) acres, non-cropland areas (such as roadsides), non-irrigation ditch banks, natural areas (such as wildlife management areas, wildlife openings, wildlife habitats, recreation areas, campgrounds, trailheads and trails), and grazed areas in and around these sites.

IMPORTANT ADVISORY TO PREVENT INJURY TO DESIRABLE PLANTS

- It is mandatory to follow the "Use Precautions and Restrictions" section of this product label.
- Carefully read the section "Plant Residues or Manure."
- Manure and urine from animals consuming treated grass or hay may contain enough aminopyralid to cause injury to sensitive broadleaf plants.
- Inform the recipient of hay or manure from animals grazing pastures or feeding on hay from areas treated with aminopyralid of the label use precautions and restrictions.
- Consult with a Dow AgroSciences representative if you do not understand the "Use Precautions and Restrictions". Call [1-(800) 263-1196] Customer Information Group.

Hay and Manure Management



Not For Sale, Distribution, or Use in New York State.

Active Ingredient:

Triisopropanolammonium salt of 2-pyridine carboxylic acid, 4-amino-3,6-dichloro-	1.50%
Triisopropanolammonium salt of (2,4-dichlorophenoxy) acetic acid	51.60%
Other Ingredients	46.90%
Total	100.00%

Acid Equivalents:

aminopyralid (2-pyridine carboxylic acid, 4-amino-3,6-dichloro-) – 0.78% - 0.75 lb/gal (9 g/L)
2,4-D [(2,4-dichlorophenoxy) acetic acid] – 27.66% - 2.67 lb/gal (320 g/L)

Keep Out of Reach of Children

DANGER PELIGRO

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

Corrosive • Causes Irreversible Eye Damage • Harmful if Swallowed

Do not get in eyes or on clothing.

Personal Protective Equipment (PPE)

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

All mixers, loaders, applicators, flaggers, and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves, when applying postharvest dips or sprays to citrus, applying with any handheld nozzle or equipment, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.
- Protective eyewear
- Chemical resistant apron when applying postharvest dips or sprays to citrus, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate

See engineering controls for additional requirements

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.

User Safety Recommendations

Users should:

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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. Call a poison control center or doctor for treatment advice.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have 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.

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.

Note to physician: Probable mucosal damage may contraindicate use of gastric lavage

Environmental Hazards

This pesticide may be toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark except as noted on appropriate labels. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

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.

Non-refillable containers 5 gallons or less:

Storage and Disposal

Do not contaminate water, food, feed or fertilizer by storage or disposal. Open dumping is prohibited.

Pesticide Storage: If this product is exposed to subfreezing temperatures, the active ingredient may crystallize and settle out of solution. Under these conditions the product should be warmed to at least 40°F and agitated well to dissolve any crystallized material prior to use.

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

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable containers larger than 5 gallons:

Storage and Disposal

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Pesticide Storage: If this product is exposed to subfreezing temperatures, the active ingredient may crystallize and settle out of solution. Under these conditions the product should be warmed to at least 40°F and agitated well to dissolve any crystallized material prior to use.

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

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two

minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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Refer to label booklet for Directions for Use.

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 booklet. 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.

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

EPA Reg. No. 62719-579

EPA Est. _____

**Produced for
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268**

Net Contents ____

(cover):

GF-2003

Herbicide

For selective post-emergence control of many broadleaf weeds in rangeland, permanent grass pastures (including grasses grown for hay), established Conservation Reserve Program (CRP) acres, non-cropland areas (such as roadsides), non-irrigation ditch banks, natural areas (such as wildlife management areas, wildlife openings, wildlife habitats, recreation areas, campgrounds, trailheads and trails), and grazed areas in and around these sites.

<p>IMPORTANT ADVISORY TO PREVENT INJURY TO DESIRABLE PLANTS</p> <ul style="list-style-type: none"> • It is mandatory to follow the "Use Precautions and Restrictions" section of this product label. • Carefully read the section "Plant Residues or Manure." • Manure and urine from animals consuming treated grass or hay may contain enough aminopyralid to cause injury to sensitive broadleaf plants. • Inform the recipient of hay or manure from animals grazing pastures or feeding on hay from areas treated with aminopyralid of the label use precautions and restrictions. • Consult with a Dow AgroSciences representative if you do not understand the "Use Precautions and Restrictions". Call [1-(800) 263-1196] Customer Information Group. 	<p>Hay and Manure Management</p>
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Not For Sale, Distribution, or Use in New York State.

Active Ingredient:

Triisopropanolammonium salt of 2-pyridine carboxylic acid, 4-amino-3,6-dichloro-	1.50%
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Other Ingredients	46.90%
Total	100.00%

Acid Equivalents:

aminopyralid (2-pyridine carboxylic acid, 4-amino-3,6-dichloro-) -	0.78%	- 0.75 lb/gal (9 g/L)
2,4-D [(2,4-dichlorophenoxy) acetic acid] -	27.66%	- 2.67 lb/gal (320 g/L)

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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.

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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 booklet. 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.

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

EPA Reg. No. 62719-579

EPA Est. _____

**Produced for
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268**

Net Contents __

90f21

Precautionary Statements

Hazard to Humans and Domestic Animals**DANGER****Corrosive • Causes Irreversible Eye Damage • Harmful if Swallowed****Do not get in eyes or on clothing.****Personal Protective Equipment (PPE)**

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

All mixers, loaders, applicators, flaggers, and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves, when applying postharvest dips or sprays to citrus, applying with any handheld nozzle or equipment, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.
- Protective eyewear
- Chemical resistant apron when applying postharvest dips or sprays to citrus, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate

See engineering controls for additional requirements

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

User Safety Recommendations

Users should:

- Wash thoroughly with soap and water after handling and 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.
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If swallowed: Call a poison control center or doctor immediately for treatment advice. Have 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.

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.

Note to physician: Probable mucosal damage may contraindicate use of gastric lavage

Environmental Hazards

This pesticide may be toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark except as noted on

appropriate labels. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 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 made of any waterproof material such as natural rubber.
- Protective eyewear
- Shoes plus socks

Non-Agricultural Use Requirements

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

Entry Restrictions for Non-WPS Uses: For applications on rangeland and permanent grass pastures, and non-cropland areas, do not enter or allow people (or pets) to enter the treated area until sprays have dried.

Storage and Disposal

Do not contaminate water, food, feed or fertilizer by storage or disposal. Open dumping is prohibited.

Pesticide Storage: If this product is exposed to subfreezing temperatures, the active ingredient may crystallize and settle out of solution. Under these conditions the product should be warmed to at least 40°F and agitated well to dissolve any crystallized material prior to use.

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

Non-refillable containers 5 gallons or less:

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Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable containers larger than 5 gallons:

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Nonrefillable containers larger than 5 gallons:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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General Information

GF-2003 herbicide is intended for selective post-emergence control of many broadleaf weeds in permanent grass pastures (including grasses grown for hay), rangeland, Conservation Reserve Program acres, non-cropland areas such as right-of-way, roadsides, non-irrigation ditch banks, and natural areas such as wildlife management areas, natural recreation areas, campgrounds, trailheads and trails, and grazed areas in and around non-crop areas.

It is permissible to treat non-irrigation ditch banks, seasonally dry wetlands (such as flood plains, deltas, marshes, swamps, or bogs) and transitional areas between upland and lowland sites. GF-2003 can be used to the waters edge. Do not apply directly to water and take precautions to minimize spray drift onto water.

Apply GF-2003 as a water or oil-water spray during warm weather when target weeds or woody plants are actively growing. Application under drought conditions will often give less than desirable results.

Generally, the lower rates recommended on this label will be satisfactory for young, succulent growth of susceptible weed species. For less susceptible species under adverse environmental conditions or when treating more mature weeds use higher recommended rates. Deep-rooted perennial weeds such as Canada thistle and field bindweed and many woody plants may require repeat applications for control.

General Use Precautions and Restrictions

Consult with a Dow AgroSciences representative if you do not understand the "Use Precautions and Restrictions." Call (1-800-263-1196) for more information.

<p>IMPORTANT ADVISORY TO PREVENT INJURY TO DESIRABLE PLANTS</p> <ul style="list-style-type: none"> • It is mandatory to follow the "Use Precautions and Restrictions" section of this product label. • Carefully read the section "Plant Residues or Manure." • Manure and urine from animals consuming treated grass or hay may contain enough aminopyralid to cause injury to sensitive broadleaf plants. • Inform the recipient of hay or manure from animals grazing pastures or feeding on hay from areas treated with aminopyralid of the label use precautions and restrictions. 	<p>Hay and Manure Management</p> <p>The diagram illustrates the flow of treated hay and manure. It starts with a tractor in a field labeled "Rangeland, Pasture, Hayfield, CRP". An arrow points to a cow labeled "Manure, Compost, Hay, Bedding". Another arrow points to a field labeled "Rangeland, Pasture, Wheat" and a field labeled "Potato, Lettuce, Beans, Tomato".</p>
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- **Not For Sale, Distribution, or Use in New York State.**
- Be sure that use of GF-2003 conforms to all application regulations.
- **Maximum Application Rate:** On all labeled use sites do not broadcast apply more than 3 pints per acre of GF-2003 per year.
- **Avoiding Injury to Non-Target Plants:** Do not aerially apply GF-2003 within 50 feet of a border downwind (in the direction of wind movement), or allow spray drift to come in contact with, any broadleaf crop or other desirable broadleaf plants, including, but not limited to, alfalfa, cotton, dry beans, flowers, grapes, lettuce, potatoes, radishes, soybeans, sugar beets, sunflowers, tobacco, tomatoes or other broadleaf or vegetable crop, fruit trees, ornamental plants, or soil where sensitive crops are growing or will be planted. Avoid application under conditions that may allow spray drift because very small quantities of spray may seriously injure susceptible crops. Read "Precautions for Avoiding Spray Drift and Spray Drift Advisory" in the next section of this label to help minimize the potential for spray drift.

- **GF-2003 is highly active against many broadleaf plant species.** Do not use this product on areas where loss of broadleaf plants, including legumes, cannot be tolerated.
- **Do not use on grasses grown for hay intended for export.**
- **Do not use on grasses grown for seed production.**
- **Chemigation:** Do not apply this product through any type of irrigation system.
- **Do not contaminate water intended for irrigation or domestic purposes.** Do not treat inside banks or bottoms of irrigation ditches, either dry or containing water, or other channels that carry water that may be used for irrigation or domestic purposes.
- Do not apply this product on residential or commercial lawns, turf, or ornamental plantings.
- Trees adjacent to or in a treated area can occasionally be affected by root uptake of GF-2003 through movement into the soil. Do not apply GF-2003 within the root zone of desirable trees unless such injury can be tolerated. Use special caution near roses, and trees in the legume family such as locusts, redbud, mimosa, and *Caragana*.
- **Seeding grasses, postemergence:** During the season of establishment, GF-2003 should be applied only after perennial grasses are well established (have developed a good secondary root system and show good vigor). Most perennial grasses are tolerant to GF-2003 at this stage of development. GF-2003 may suppress certain established grasses, such as smooth brome grass (*Bromus inermis*), especially when plants are stressed by adverse environmental conditions. Plants should recover from this transient suppression with the onset of environmental conditions favorable to grass growth and upon release from weed competition.
- **Seeding Legumes:** Do not plant forage legumes until a soil bioassay has been conducted to determine if aminopyralid residues remaining in the soil will adversely affect the legume establishment.
- **Grazing and Haying Restrictions:** There are no restrictions on grazing or grass hay harvest following application of GF-2003 at labeled rates. Do not cut forage for hay within 7 days after application. Cutting hay too soon after spraying weeds will compromise the weed control. Wait 14 days prior to cutting grass hay to allow for maximum herbicide activity. Do not transfer grazing animals from areas treated with GF-2003 to areas where sensitive broadleaf crops occur without first allowing 3 days of grazing on an untreated pasture. Otherwise, urine and manure may contain enough aminopyralid to cause injury to sensitive broadleaf plants.
- **Grazing Poisonous Plants:** Herbicide application may increase palatability of certain poisonous plants. Do not graze treated areas until poisonous plants are dry and no longer palatable to livestock.
- **Plant Residues or Manure:**
 - ◆ Do not use GF-2003 -treated plant residues, including hay or straw from treated areas, or manure from animals that have grazed forage or hay harvested from treated areas within the previous 3 days, in compost or mulch that will be applied to areas where commercially grown mushrooms or broadleaf plants may be grown.
 - ◆ Do not spread manure from animals that have grazed or consumed forage or hay from treated areas within the previous 3 days on land used for growing susceptible broadleaf crops.
 - ◆ Manure from animals that have grazed forage or eaten hay harvested from GF-2003-treated areas within the previous 3 days may only be used on pasture grasses, grass grown for seed, and wheat.

- Do not plant a broadleaf crop in fields treated in the previous year with manure from animals that have grazed forage or eaten hay harvested from GF-2003-treated areas until an adequately sensitive field bioassay is conducted to determine that the aminopyralid concentration in the soil is at level that is not injurious to the crop to be planted.
- To promote herbicide decomposition, plant residues should be evenly incorporated in the surface soil or burned. Breakdown of GF-2003 in plant residues or manure is more rapid under warm, moist soil conditions and may be enhanced by supplemental irrigation.
- **Crop Rotation:** Do not rotate non-cropland to any crop from rangeland, permanent pasture or CRP acres within one year following treatment. Do not plant a broadleaf crop until an adequately sensitive field bioassay shows that the level of aminopyralid present in the soil will not adversely affect that broadleaf crop.

Field Bioassay Instructions: In fields previously treated with this product, plant short test rows of the intended rotational crop across the original direction of application in a manner to sample variability in field conditions such as soil texture, soil organic matter, soil pH, rainfall pattern or drainage. The field bioassay can be initiated at any time between harvest of the treated crop and the planting of the intended rotational crop. Observe the test crop for symptoms of herbicidal activity, such as poor stand (effect on seed germination), chlorosis (yellowing), and necrosis (dead leaves or shoots), or stunting (reduced growth). If herbicidal symptoms do not occur, the test crop can be grown. If there is apparent herbicidal activity, do not plant the field to the intended rotational crop; plant only to wheat, forage grasses, native grasses or grasses grown for hay.

Mixing Instructions

Mix GF-2003 only with water, unless otherwise directed on this label. Add about half the water to the mixing tank, then add the GF-2003 with agitation, and finally the rest of the water with continuing agitation.

Tank Mixing with Other Herbicides

GF-2003 at rates of up to 3 pints per acre may be mixed with labeled rates of other herbicides registered for the same sites to broaden the spectrum of weeds controlled or to improve control of certain weeds. GF-2003 may be applied in tank-mix combination with labeled rates of other herbicides provided: (1) the tank-mix product is labeled for the timing and method of application for the use site to be treated, (2) mixing is not prohibited by the label of the registered tank mixed products, and (3) that the tank-mix combination is physically compatible (see tank-mix compatibility testing below). When tank-mixing, use only in accordance with the restrictions, precautions and limitations on the respective product labels

- Read carefully and follow all applicable use directions, precautions, and limitations on the respective product labels.
- Do not exceed recommended application rates. If products containing the same active ingredient are mixed, do not exceed the maximum allowable active ingredient use rates.
- For direct injection or other spray equipment where the product formulations will be mixed in undiluted form, special care should be taken to ensure tank-mix compatibility.
- Always perform a jar test to ensure the compatibility of products to be used in tank mixture.

Tank Mixing Precautions:

- For products packaged in water soluble packaging, do not tank mix with products containing boron or mix in equipment previously used to apply a product mixture containing boron unless the tank and spray equipment has been adequately cleaned. (See Sprayer Clean-Out instructions.)
- Always perform a (jar) test to ensure the compatibility of products to be used in tank mixture.

Tank Mix Compatibility Testing: Perform a jar test prior to mixing in a spray tank to ensure compatibility of GF-2003 and other pesticides or carriers. Use a clear glass jar with lid and mix ingredients in the same order and proportions as will be used in the spray tank. The mixture is compatible if the materials mix

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readily when the jar is inverted several times. The mixture should remain stable after standing for 1/2 hour or, if separation occurs, should readily mix if agitated. An incompatible mixture is indicated by separation into distinct layers that do not readily remix when agitated and/or the presence of flakes, precipitates, gels, or heavy oily film in the jar. Use of an appropriate compatibility agent may resolve mix incompatibility.

Mixing with Sprayable Liquid Fertilizer Solutions: GF-2003 is usually compatible with liquid fertilizer solutions. It is anticipated that GF-2003 will not require a compatibility agent for mixing with fertilizers; however, a compatibility test (jar test) should be made prior to mixing. Jar tests are particularly important when a new batch of fertilizer or pesticide is used, when water sources change, or when tank mixture ingredients or concentrations are changed. Compatibility may be determined by mixing the spray components in the desired order and proportions in a clear glass jar before large scale mixing of spray components in the spray tank. Use of a compatibility agent is recommended to help obtain and maintain a uniform spray solution during mixing and application. **Note:** The lower the temperature of the liquid fertilizer, the greater the likelihood of mixing problems. **Mixing GF-2003 in N-P or N-P-K liquid fertilizer solutions is more difficult than mixing with straight nitrogen fertilizer and should not be attempted without first conducting a successful compatibility jar test.** Agitation in the spray tank must be vigorous to be comparable with jar test agitation. Apply the spray mixture the same day it is prepared while maintaining continuous agitation. Rinse the spray tank thoroughly after use.

Note: Foliar-applied liquid fertilizers themselves can cause yellowing of the foliage of forage grasses and other vegetation.

Sprayer Clean-Out Instructions: It is recommended that separate spray equipment be used on highly sensitive crops such as tobacco, soybeans, peanuts, and tomatoes.

Do not use spray equipment used to apply GF-2003 for other applications to land planted to, or to be planted to, crops or desirable sensitive plants, unless it has been determined that all residues of this herbicide has been removed by thorough cleaning of equipment.

Equipment used to apply GF-2003 should be thoroughly cleaned before reusing to apply any other chemicals as follows.

1. Rinse and flush application equipment thoroughly after use. Dispose of rinse water away from water supplies.
2. Rinse a second time, adding 1 quart of household ammonia or tank cleaning agent for every 25 gallons of water. Circulate the solution through the entire system so that all internal surfaces are contacted (15 to 20 minutes). Let the solution stand for several hours, preferably overnight.
3. Flush the solution out of the spray tank through the boom.
4. Rinse the system twice with clean water, recirculating and draining each time.
5. Spray nozzles and screens should be removed and cleaned separately.

Application Instructions

Apply with calibrated air or ground equipment using sufficient spray volume to provide adequate coverage of target weeds or as otherwise directed in specific use directions. For broadcast application, use a spray volume of 2 or more gallons per acre by air and 10 or more gallons per acre for ground equipment. Where states have regulations which specify minimum spray volumes, they should be observed. In general, spray volume should be increased as crop canopy, height and weed density increase in order to obtain adequate spray coverage.

Addition of Surfactants or Adjuvants on All Labeled Use Sites: The addition of a high quality non-ionic surfactant (of at least 80% active ingredient) at 0.25 to 0.5 % volume per volume (1 to 2 quarts per 100 gallons of spray) is recommended to enhance herbicide activity under adverse environmental conditions (such as, high temperature, low relative humidity, drought conditions, dusty plant surfaces) or when weeds are heavily pubescent or more mature.

Rate Ranges and Application Timing

Generally, the lower dosages given will be satisfactory for young, succulent growth of sensitive weed species. For less sensitive species and under conditions where control is more difficult, the higher dosages will be needed. Apply GF-2003 during warm weather when weeds are young and actively growing.

Spot Application: Spot treatments may be applied at rates equivalent to broadcast-applied rate of up to a maximum of 3 pints per acre of the treated field. Spray volume should be sufficient to thoroughly and uniformly wet weed foliage. Repeat treatments may be made, but the total amount of GF-2003 applied must not exceed 3 pints per acre per year. (see comments in the Use Precautions and Restrictions section above on Maximum Application Rate).

Table 1: Application rates in the table below are based on treating an area of 1000 sq ft. An area of 1000 sq ft is about 10.5 by 10.5 yards in size. Mix the amount of GF-2003 (fl oz or milliliters) corresponding to the desired broadcast rate in 0.5 to 2.5 gallons of water, depending upon the spray volume required to treat 1000 sq ft. A delivery volume of 0.5 gallons per 1000 sq ft is equivalent to 22 gallons per acre and 2.5 gallons per 1000 sq ft is equivalent to 109 gallons per acre.

Amount of GF-2003 per 1000 sq ft to Equal Broadcast Rate			
Broadcast Rate		Amount of GF-2003 per 1000 sq ft	
(fl oz/acre)	(pt/acre)	(fl oz)	(mL)
24	1.5	0.55	16.3
32	2	0.74	21.7
48	3	1.1	32.6

Note: 1 mL = 1cc and 1 fluid ounce (fl oz) = 29.6 milliliters (mL) = 2 tablespoons = 6 teaspoons

To calculate the amount of GF-2003 for areas larger than 1000 sq ft: Multiply the table value (fl oz or milliliters) by the area to be treated in "thousands" of square feet. For example, if the area to be treated is 3500 sq ft, multiply the table value by 3.5 (3500 sq ft divided by 1000 sq ft = 3.5).

Weeds Controlled –1.5 to 3 pts. per acre

Annual or Biennial Weeds

- | | |
|----------------------------|--------------------------------|
| beggarticks † | mousetail |
| bittercress, smallflowered | mustards (except blue mustard) |
| bitterweed | parsnip, wild |
| broomweed, common † | pennycress, field |
| burdock, common | pepperweed † |
| buttercup, smallflowered † | pigweeds (Amaranthus spp.) † |
| carpetweed | poorjoe |
| carrot, wild † | primrose, common |
| cinquefoil, common | purslane, common |
| cinquefoil, rough | pusley, Florida |
| cocklebur, common | radish, wild |
| coffeeweed | ragweed, common |
| copperleaf, Virginia | ragweed, giant |
| croton, Texas | rape, wild |
| croton, woolly | rocket, yellow |
| flixweed | salsify, common † |
| galinsoga | salsify, western † |
| geranium, Carolina | shepherdspurse |
| hemp, wild | sicklepod |

horseweed (marestail)
 jewelweed
 jimsonweed
 knotweed †
 kochia †
 lambsquarters, common
 lettuce, prickly †
 lettuce, wild
 lupines
 mallow, little †
 mallow, Venice †
 marshelder †
 morningglory, annual
 morningglory, ivy
 morningglory, woolly

smartweed (annual species) †
 sneezeweed, bitter
 sowthistle, annual
 sowthistle, spiny
 spanishneedles
 sunflower
 sweetclover
 tansymustard
 thistle, bull
 thistle, musk
 thistle, Russian (tumbleweed) †
 velvetleaf
 vetches

Perennial Weeds

alfalfa
 artichoke, Jerusalem †
 aster, many-flower †
 Austrian fieldcress †
 bindweed (hedge, field and European) †
 blue lettuce
 blueweed, Texas
 snakeweed, broom
 bullnettle †
 catnip
 chicory
 clover, red
 cress, hoary †
 dandelion †
 docks †
 dogbanes †
 goldenrod

eveningprimrose, cutleaf
 garlic, wild †
 hawkweed, orange †
 ironweed, western
 ivy, ground †
 loco, bigbend
 nettles (including stinging) †
 onion, wild †
 pennywort
 plantains †
 ragwort, tansy †
 sowthistle, perennial
 thistle, Canada †
 vervains †
 wormwood

† **Difficult-to-Control Weeds:** These weeds are only partially controlled and/or use of higher recommended rates of this product.

Rangeland, Established Grass Pastures (Including Perennial Grasslands Not In Agricultural Production Such As Conservation Reserve Program Acres)

Restrictions:

- **Preharvest Interval:** Do not cut forage for hay within 7 days of application. For program lands, such as CRP, consult program rules to determine whether grass or hay may be used. The more restrictive requirements of the program rules or this label must be followed.
- **Maximum use rates:**
 - susceptible annual and biennial and perennial broadleaf weeds: 3 pints
 - moderately susceptible biennial and perennial broadleaf weeds: 3 pints ae/acre)
 - difficult to control weeds and woody plants: 3 pints
- **Maximum seasonal rate:** Apply no more than 3 pints per acre per use season
- Use 2 or more gallons of spray solution per acre
- Do not make more than two applications per year
- Do not apply within 30 days of previous application

- If grass is to be cut for hay, Agricultural Use Requirements for the Worker Protection Standard are applicable

Target Weeds or Woody Plants	GF-2003 (pt/acre)	Specific Use Directions
Annual broadleaf weeds	1.5 to 2.0	For best results, apply when weeds are small and growing actively before the bud stage. Apply when musk thistles or other biennial species are in the seedling to rosette stage and before flower stalks appear. Refer to the "Weeds Controlled" section for a listing of susceptible weed species and weeds that may be only partially controlled and require repeat applications and/or use of higher recommended rates, even under ideal conditions of application
Biennial and perennial broadleaf weeds	2 to 3	
Spot Treatment to control broadleaf weeds	See Instructions for "Spot Treatment"	Note: To control broadleaf weeds in small areas with a hand sprayer, use an application rate equivalent to the broadcast rate recommended for this treatment site and spray to thoroughly wet all foliage. Refer to "Spot Treatment" section for instructions and rate conversion table under "Application Instructions" section of this label.
Broadleaf weed control in newly sprigged coastal bermudagrass	1.5 to 2	Applications may be made either preemergence or postemergence. Follow Directions in the General Use and Precautions Section above on Seeding Grasses.
CRP Acres	For program lands such as CRP, consult program rules to determine whether grass or hay may be used. The more restrictive requirements of the program rules or this label must be followed.	

Non-Cropland Areas

GF-2003 may be applied alone or in tank-mix combination to non-cropland areas, such as non-irrigation ditch banks, industrial and storage areas, airports, roadsides, railroad and utility rights-of-way, including grazed areas on these sites as an aerial or ground broadcast treatment, as a spot application, or as a high volume foliar application (see Application Methods section). Refer to the Broadleaf Weeds Controlled section for application rates recommended for specific broadleaf weeds.

Restrictions:

Postemergence (annual and perennial weeds):

- Do not make more than two applications per year
- Maximum of 3 pints per acre per application per year
- Minimum of 30 days between application
- Use 2 or more gallons of spray solution per acre

Postemergence (woody plants)

- Limited to 1 application per year
- Maximum of 3 pints per acre
- Use 2 or more gallons of spray solution per acre

Applications to non-cropland areas are not applicable to treatment of commercial timber or other plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.

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Target Weeds or Woody Plants	GF-2003 (pt/acre)	Specific Use Directions
Annual broadleaf weeds	1.5 to 3	Apply when annual weeds are small and growing actively before the bud stage. Biennial and perennial weeds should be rosette to bud stage, but not flowering at the time of application. For difficult to control perennial broadleaf weeds and woody species, tank mix up to 4 quarts of GF-2003 plus 1 to 4 qt of Garlon 3A per acre. Oil or wetting agent may be added to the spray, if needed for increased effectiveness. For ground application (High volume): apply a total spray volume of 100 to 400 gallons per acre; (low volume) apply a total spray volume of 10 to 100 gallons per acre. For helicopter: Apply a total spray volume of 5 to 30 gallons per acre.
Biennial and perennial broadleaf weeds and susceptible woody plants	2 to 3	
Spot Treatment to control broadleaf weeds	See Instructions for "Spot Treatment"	Note: To control broadleaf weeds in small areas with a hand sprayer, use an application rate equivalent to the broadcast rates recommended for this treatment site and spray to thoroughly wet all foliage. Refer to "Spot Treatment" section for instructions and rate conversion table under "Application Instructions" section of this label.

Spray Drift Management

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

Droplet Size

When applying sprays that contain 2,4-D as the sole active ingredient, or when applying sprays that contain 2,4-D mixed with active ingredients that require a Coarse or coarser spray, apply only as a Coarse or coarser spray (ASAE standard 572) or a volume mean diameter of 385 microns or greater for spinning atomizer nozzles.

When applying sprays that contain 2,4-D mixed with other active ingredients that require a Medium or more fine spray, apply only as a Medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Wind Speed

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition and there are not sensitive areas (including, but not limited to, residential areas, bodies of water, known habitat for nontarget species, nontarget crops) within 250 feet downwind. If applying a Medium spray, leave one swatch unsprayed at the downwind edge of the treated field.

Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if: a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

Susceptible Plants

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Susceptible crops include, but are not limited to, cotton, okra, flowers, fruit trees, grapes (in growing stage), fruit trees (foliage), soybeans (vegetative stage), ornamentals, sunflowers, tomatoes, beans, and other vegetables, or tobacco. Small amounts of spray drift that may not be visible may injure susceptible broadleaf plants.

Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of 2,4-D herbicides. Where states have more stringent regulations, they must be observed.

Equipment

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

Aerial Application

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. This requirement does not apply to forestry or rights-of-way applications.

When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this by adjusting the path of the aircraft upwind.

Ground Boom Application

Do not apply with a nozzle height greater than 4 feet above the crop canopy.

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