

62719-447

8-12-2004

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 05-31-98



United States Environmental Protection Agency Washington, DC 20460

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

OPP Identifier Number
295345

Application for Pesticide - Section I

| | | |
|--|---|---|
| 1. Company/Product Number Dow AgroSciences/62719-447 | 2. EPA Product Manager Joanne I. Miller | 3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted |
| 4. Company/Product (Name) Dow AgroSciences/GOAL® 4F | PM# PM / 23 | |
| 5. Name and Address of Applicant (Include ZIP Code) Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268 <input type="checkbox"/> Check if this is a new address | 6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in Composition and labeling to: EPA Reg. No. Product Name | |

Section - II

| | | |
|--|--|---|
| <input checked="" type="checkbox"/> Amendment - Explain below. | <input type="checkbox"/> Final printed labels in response to Agency letter dated | NOTIFICATION <u>AUG 12 2004</u> |
| <input type="checkbox"/> Resubmission in response to Agency letter dated _____ | <input type="checkbox"/> "Me Too" Application. | |
| <input type="checkbox"/> Notification - Explain below. | <input type="checkbox"/> Other- Explain below. | |

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)

See Page 2

Section - III

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

Section - IV

| | | |
|---|--------------------------------|---|
| 1. Contact Point /Complete items directly below for identification of individual to be contacted, if necessary, to process this application) | | |
| Name Barbara J. Kaminski | Title Regulatory Manager | Telephone No. (Include Area Code) 317/337-5424 |
| Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowing false or misleading statement may be punishable by fine or imprisonment or both under applicable law. | | E. Date Application Received (Stamped) |
| 2. Signature | 3. Title Regulatory Manager | |
| 4. Typed Name Barbara J. Kaminski | 5. Date July 22, 2004 | |

* Trademark of Dow AgroSciences LLC

AUG 12 2004

Goal[®] 4F

EPA Reg. No. 62719-447

Registration Notes:

Source label text based on EPA-accepted copy dated September 11, 2002, with conditions of acceptance and notification coded "F2B / Goal 4F (MTR) / Notification / 12-04-03."

Changes by Notification (07-16-04):

1. Corrected instances of "Goal 2XL" to read "Goal 4F" and corrected rates in Fallow Bed table and max rate in Tree/Nut/Vine section (Note: Source label was Goal 2XL and rates in question in the Fallow Bed table and max rate for Tree/Nut/Vine section had not been adjusted to reflect the 4 lb/gal formulation of Goal 4F).
2. On Page 5, in the heading "Directions for use", the "u" has been capitalized to read "Directions for Use".
3. On Page 22 of the Cotton section, under "DOSAGE", two instances of use of an asterisk to refer to a footnote have been changed to daggers to correctly match up with the footnote.
4. On Pages 26 and 27 of the Fallow Bed section, the headings which say "up to 1.0 pints/A" were corrected to read "1.0 pint/A".
5. On Page 39 of the Mint section, in the "WESTERN OREGON" box, the extra bullet has been deleted so the sentence now reads ("4F" added) "**DO NOT APPLY Goal 4F IN THE WILLAMETTE VALLEY TO MINT THAT HAS BEEN PLOWED.**"
6. Two sentences on Page 53 under "General Use Restrictions" containing the words "... Goal-labeled..." were corrected as follows (deleted text is denoted by strike-through and added text is underlined):
Do not direct seed any crops, other than ~~Goal (oxyfluorfen)~~-labeled crops, within 60 days following a Goal 4F treatment.

Do not transplant seedling crops, other than ~~Goal (oxyfluorfen)~~-labeled crops, within 30 days following a treatment with Goal 4F.

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Base Label:

(Logo) Dow AgroSciences

Goal* 4F

Use Directions For: artichokes (globe), broccoli/cabbage/cauliflower, cacao, citrus (nonbearing), coffee, conifer (seedbeds, transplants, container stock) and selected deciduous trees, corn, cotton, cottonwood, eucalyptus, fallow bed, (cotton/soybeans), fallow land, garbanzo beans, garlic, guava (Hawaii only), horseradish, jojoba, mint, onions, onions grown for seed, papaya (Hawaii only), soybeans, taro, treefruit/nut/vine

Active Ingredient

| | |
|--|------|
| oxyfluorfen: 2-chloro-1-(3-ethoxy-4-nitrophenoxy)4-(trifluoromethyl) | 41% |
| Inert Ingredients | 59% |
| Total | 100% |

Contains 4 pounds active ingredient per gallon.

Shake Well Before Using**Keep Out of Reach of Children****CAUTION PRECAUCION**

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

Precautionary Statements

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling.

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 selection chart.

Applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves made of any waterproof material (>14 mils) such as: Barrier Laminate, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Natural Rubber, Polyethylene, Polyvinyl Chloride (PVC), or Viton
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing or loading

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft 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.

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User Safety Recommendations**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove contaminated clothing and wash clothing before reuse.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. This product is highly toxic to aquatic invertebrates, aquatic plants, wildlife and fish. Use with care when applying in areas frequented by wildlife or adjacent to any body of water or wetland area. Do not apply when weather conditions favor drift or erosion from target areas. Runoff may be hazardous to aquatic organisms in neighboring areas.

Agricultural Use Requirements

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

Refer to label booklet for Directions for Use 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 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. If you wish to obtain additional product information, visit our web site at www.dowagro.com.

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

EPA Reg. No. 62719-447

EPA Est. _____

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

Herbicide

Net Contents __ gal

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Label Booklet:

(Logo) Dow AgroSciences

Goal* 4F

Use Directions For: artichokes (globe), broccoli/cabbage/cauliflower, cacao, citrus (nonbearing), coffee, conifer (seedbeds, transplants, container stock) and selected deciduous trees, corn, cotton, cottonwood, eucalyptus, fallow bed, (cotton/soybeans), fallow land, garbanzo beans, garlic, guava (Hawaii only), horseradish, jojoba, mint, onions, onions grown for seed, papaya (Hawaii only), soybeans, taro, treefruit/nut/vine

Active Ingredient

| | |
|--|------|
| oxyfluorfen: 2-chloro-1-(3-ethoxy-4-nitrophenoxy)4-(trifluoromethyl) | 41% |
| Inert Ingredients | 59% |
| Total | 100% |

Contains 4 pounds active ingredient per gallon.

Shake Well Before Using

Keep Out of Reach of Children

CAUTION PRECAUCION

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

Agricultural Use Requirements

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

Refer to inside of label booklet for Precautionary Statements and 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 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. If you wish to obtain additional product information, visit our web site at www.dowagro.com.

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

EPA Reg. No. 62719-447

EPA Est. _____

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Made in USA

Herbicide

Net Contents __ gal

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(Page 1 through end):

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Precautionary Statements

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling.

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 selection chart.

Applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves made of any waterproof material (>14 mils) such as: Barrier Laminate, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Natural Rubber, Polyethylene, Polyvinyl Chloride (PVC), or Viton
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing or loading

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft 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 contaminated clothing and wash clothing before reuse.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. This product is highly toxic to aquatic invertebrates, aquatic plants, wildlife and fish. Use with care when applying in areas frequented by wildlife or adjacent to any body of water or wetland area. Do not apply when weather conditions favor drift or erosion from target areas. Runoff may be hazardous to aquatic organisms in neighboring areas.

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

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exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves made of any waterproof material (>14 mils) such as: Barrier Laminate, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Natural Rubber, Polyethylene, Polyvinyl Chloride (PVC), or Viton
- Chemical-resistant headgear for overhead exposure

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.

- **Keep unprotected persons out of treated area until sprays have dried.**

Storage and Disposal:

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

Storage: Keep from Freezing. Store above 32°F

Pesticide Disposal: Pesticide Wastes are toxic. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal

Plastic Containers: Triple rinse (or equivalent). Puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

Steps to be taken in Case Material Is Released or Spilled: Dike the spill with inert material (sand, earth, etc.) and transfer the liquid or solid diking material to separate containers for recovery or disposal. Remove contaminated clothing promptly and wash exposed skin areas with soap and water. Wash clothing before reuse. Keep spill out of all sewers and bodies of water.

GENERAL USE INFORMATION

Unless otherwise directed by registered supplemental labels, follow the Directions for Use in each crop group section.

Chemigation: Do not apply this product through any type of irrigation system.

CULTURAL CONSIDERATIONS

In order for Goal 4F herbicide to provide maximum preemergence activity: Prior to application, the bed or soil surface should be smooth and free of crop and weed trash (decaying leaves, clippings, dead weeds, etc.). Leaves and trash may be removed by blowing the area to be treated or by thoroughly mixing the trash into the soil through cultivation prior to herbicide application.

For maximum postemergence activity, thorough spray coverage is essential to weed seedlings up to the 4-leaf stage. Applications of Goal 4F to weeds that exceed the maximum leaf stage may result in reduced weed control. Multiple applications may be appropriate in specific crops. Postemergence control may be enhanced when Goal 4F is tank-mixed with glyphosate, glufosinate-ammonium or paraquat (Gramoxone® Herbicide). Apply at the recommended rates and growth stages to susceptible weed species in a manner

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consistent with the respective labels. Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.

After application, at least one-quarter inch (1/4 inch) of irrigation or rainfall should occur within 3 or 4 weeks after application. The best results from Goal 4F are from applications to established beds or soil surfaces that are left undisturbed during the time period for which weed control is desired. Cultural practices that result in redistribution or disturbance of the soil surface after treatment will decrease the herbicidal effectiveness of Goal 4F. Cutting water furrows or cultivations that mix untreated soil into treated areas will also reduce the effectiveness of the treatment.

MIXING DIRECTIONS

Fill the spray tank at least one-third full of clean water. With the pump and agitator running, add the recommended amount of herbicides to the spray tank. The order of addition to the spray tank should be wettable powders first, flowables second and liquids last. Complete filling of the spray tank with water. For all applications of Goal 4F (except onions) where postemergence weed control is desired, add 2 to 4 pints of Latron* AG-98* (or comparable 80% active nonionic surfactant cleared for application to growing crops) per each 100 gallons of spray. The addition of 4 pints of Latron AG-98 per 100 gallons of spray is recommended to enhance postemergence activity when hard water (greater than 600 ppm) is used as carrier. Maintain agitation until spraying is completed.

Spray equipment should be calibrated carefully before each use.

Dosages listed on this label are for broadcast application. For banded application, the amount of Goal 4F used per acre should be reduced according to the following formula:

$$\frac{\text{Band Width (in inches)}}{\text{Row Width (in inches)}} \times \text{Rate per Broadcast Acre} = \text{Amount Needed per Acre for Banded Application}$$

Tank Mixing Precautions:

- Read and carefully follow all applicable use directions, precautions, and limitations on the respective product labels. In interpreting the labels of tank mixed products, the most restrictive label limitations must apply.
- Do not exceed recommended application rates. Do not tank mix with another pesticide product that contains the same active ingredient as this product unless the label of either tank mix partner specifies the maximum dosages that may be used.

Tank Mix Compatibility Testing: A jar test is recommended prior to tank mixing to ensure compatibility of this product and other pesticides. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls-up, forms flakes, sludges, jels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

ARTICHOKES (GLOBE)

POST-DIRECTED SPRAY

GENERAL INFORMATION

Goal 4F is an effective herbicide for postemergence and preemergence control of certain broadleaf weeds in artichokes. Goal 4F should be directed towards the winter ditch, levees or flat rows between the artichoke rows. Artichoke fronds receiving accidental spray or drift will be injured. Over-the-top applications may exhibit severe injury to the foliage and flower bud and are not recommended.

DOSAGE

Goal 4F is recommended as a post-directed application at 2 to 4 pints (1.0 to 2.0 lb active) per acre. Optimum control is achieved when two applications of Goal 4F are applied at 2 pints (1.0 lb active) per acre. The initial application should be made to susceptible weed seedlings (up to 4-leaf stage). It is

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recommended that a second application be made 8 to 10 weeks later. Good results may be achieved when a single application of 4 pints (2.0 lb active) of Goal 4F is applied to susceptible weed seedlings (up to 8-leaf stage). Do not apply more than 4 pints (2.0 lb active) of Goal 4F per treated acre per season as a result of a single application or multiple applications. Do not apply within 5 days of harvest.

WEEDS CONTROLLED POSTEMERGENCE

| | |
|------------------------|----------------------------|
| CHEESEWEED (MALVA) | OXALIS (BERMUDA BUTTERCUP) |
| GROUNDSEL, COMMON | SHEPHERDSPURSE |
| MUSTARD, COMMON YELLOW | SOWTHISTLE, ANNUAL |
| NETTLE, BURNING | |

WEEDS CONTROLLED PREEMERGENCE

| | |
|------------------------|---|
| CHEESEWEED (MALVA) | OXALIS (BERMUDA BUTTERCUP) [†] |
| GROUNDSEL, COMMON | SHEPHERDSPURSE |
| LAMBSQUARTERS, COMMON | SOWTHISTLE, ANNUAL |
| MUSTARD, COMMON YELLOW | |

[†] Suppression

TIMING AND METHOD OF APPLICATION

Treatments should be made after completion of the ditching operation. Goal 4F should be applied in a minimum of 40 gallons of water per acre depending upon density of emerged weeds. Spray volume should be increased as weed height and density increase. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use. Spray should be directed towards the winter ditch, levees or flat rows between the artichoke rows. **Artichoke fronds receiving accidental spray or drift will be injured.**

ARTICHOKES (GLOBE)

SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Do not apply more than 4 pints (2.0 lb active) of Goal 4F per treated acre per season as a result of a single application or multiple applications.
- Do not apply Goal 4F within 5 days of harvest.
- Avoid direct spray or drift contact of Goal 4F with artichoke flowers or buds as severe injury may result.
- Do not apply Goal 4F to artichoke plantings within 60 days after cutting back or transplanting.

BROCCOLI/CABBAGE/CAULIFLOWER

PRE-TRANSPLANT (PREPLANT) APPLICATION FOR PREEMERGENCE BROADLEAF WEED CONTROL

GENERAL INFORMATION

Goal 4F is a selective herbicide for preemergence control of certain annual broadleaf weeds. Applications must be made after completion of soil preparation but *prior* to transplanting of broccoli, cabbage or cauliflower plants. Transplanting should be completed with minimal soil disturbance. Treated soil surfaces should be left undisturbed after transplanting to obtain greatest benefit of Goal 4F on susceptible annual broadleaf weeds during the time period for which weed control is desired. However, timely cultivations after weed emergence will assist in weed control.

Pre-transplant applications of Goal 4F in broccoli, cabbage and cauliflower may result in a temporary initial crop response (leaf cupping or crinkling). Crop response may be enhanced if crop leaves come in direct contact with treated soil. Crops rapidly outgrow this condition and develop normally.

Severe crop response may result from the use of transplants that are under stress due to temperature, disease, fertilizer, nematodes, insects, pesticides or storage conditions. The use of young (less than 5 weeks old), extremely succulent transplants grown in containers, less than 1 inch square, may increase

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the severity of crop injury. Hardening off, increasing the age of transplants or increasing the size of the rooting container will lessen the possibility and/or severity of crop injury.

DOSAGE

Goal 4F is recommended for use at 0.5 to 1 pint (0.25 to 0.5 lb active) per broadcast acre. The lower rate (0.5-pint per acre) is recommended for preemergence weed control on coarse texture soils with less than 1% organic matter. The 1 pint per acre rate is recommended for preemergence weed control on medium to fine texture soils or soils containing greater than 1% organic matter.

Goal 4F will assist in early season annual grass control. However, Goal 4F must not be a basic portion of the grass herbicide program. A planned herbicide program for preemergence or postemergence grass control is recommended. Research has shown that severe crop injury can occur if Goal 4F is applied to a field that has had an application of an acetanilide herbicide (Dual Magnum® (metolachlor), Lasso® Herbicide, or Ramrod® Herbicide) during the current growing season, therefore, it is not recommended.

WEEDS CONTROLLED †

| | |
|-------------------|-------------------------|
| CARPETWEED | PURSLANE, COMMON |
| PIGWEEED, REDROOT | SMARTWEED, PENNSYLVANIA |

† Applications of Goal 4F to muck soils may result in partial control or suppression of the weeds listed. Goal 4F at the rate of 0.5 to 1 pint per acre may provide partial control or suppression of galinsoga, common lambsquarters and wild mustard.

METHOD OF APPLICATION

Goal 4F should be thoroughly mixed with clean water at recommended concentrations, and applied in a minimum of 20 gallons of water per acre. Use conventional ground spray equipment with flat fan nozzles at 20 to 40 psi. Do not exceed 40 psi. Accurately calibrate spray equipment prior to each use. Thoroughly flush the spray equipment (tank, hose, pump, and boom) with water before and after each use. Residual Goal 4F remaining in spray equipment may damage other crops.

Avoid drift to all other crops and non-target areas. Do not apply when weather conditions favor drift. Goal 4F is phytotoxic to plant foliage.

BROCCOLI/CABBAGE/CAULIFLOWER SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Do not apply more than 1 pint (0.5 lb active) of Goal 4F per treated acre per season.
- Do not apply Goal 4F preemergence to direct-seeded broccoli, cabbage or cauliflower.
- Do not apply Goal 4F post-transplant or postemergence (over the top) to broccoli, cabbage or cauliflower.
- For field use only. Do not apply Goal 4F in an enclosed greenhouse structure as injury to plant foliage may result.

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CACAO**GENERAL INFORMATION**

Goal 4F is effective as a preemergence herbicide when used alone for the control of certain annual broadleaf weeds in bearing and nonbearing cacao plantings. Preemergence control is most effective when spray is applied to clean, weed-free soil surfaces. Treated berms or soil surfaces should not be disked or disturbed in any manner as the herbicidal effectiveness of Goal 4F may be decreased. Seedling weeds are controlled as they come in contact with soil-applied herbicide during emergence.

Goal 4F USED ALONE**DOSAGE**

Goal 4F is recommended for preemergence and postemergence control of susceptible weeds at 1 to 4 pints (0.5 to 2.0 lb active) per broadcast acre when directed to the orchard floor beneath cacao plants, or at a dosage of up to 2 pints per acre as a pre-transplant application.

For directed spray applications, cacao transplants must be healthy and of suitable size for field transplanting. Avoid spray contact with cacao foliage as injury may result.

Dosages listed are for broadcast application. For banded application, the amount of Goal 4F used per acre should be reduced according to the following formula:

$$\frac{\text{Band Width (in inches)}}{\text{Row Width (in inches)}} \times \text{Rate per Broadcast Acre} = \text{Amount Needed per Acre for Banded Application}$$

WEEDS CONTROLLED POSTEMERGENCE

Apply 1 to 4 pints (0.5 to 2.0 lb active) of Goal 4F per broadcast acre. Applications to weeds beyond the 4-leaf stage may result in partial control.

PURSLANE, COMMON

SPURGE, GARDEN

WEEDS CONTROLLED PREEMERGENCE

Apply 1 to 4 pints (0.5 to 2.0 lb active) of Goal 4F per broadcast acre.

AGERATUM
BUTTONWEED
CROTALARIA

PURSLANE, COMMON
SPURGE, GARDEN

TIMING AND METHOD OF APPLICATION

Do not apply preplant or preemergence to direct-seeded cacao. Treatments can be made to established cacao or as a pre-transplant or recently transplanted cacao.

Treatments should only be applied to healthy cacao stock (as determined by standard commercial growing practices). Care must be taken to prevent direct spray contact with foliage. Cacao foliage receiving accidental spray or drift may be injured.

As a preemergence or postemergence treatment to weeds, apply in a minimum of 15 gallons of water per acre. Use higher volumes to assure adequate coverage in high densities of emerged weeds or heavy trash. Goal 4F should be directed to the soil and the base of the tree. Use of a low pressure sprayer equipped with a breakaway boom and a flat fan or off-center (OC) nozzles is recommended. Spray shields are suggested for use in young trees. Spray equipment should be calibrated carefully before each use.

CACAO - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe the GENERAL USE RESTRICTIONS listed at the end of this label.

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- Do not apply more than 4 pints (2.0 lb active) per broadcast acre of Goal 4F in a single application or 12 pints (6.0 lb active) per broadcast acre per year.
- Do not apply Goal 4F within one (1) day of harvest.
- Direct spray toward the base of the trees. Avoid spray contact with foliage.
- Do not apply preplant or preemergence to direct-seeded cacao.

CITRUS (NONBEARING)

CALAMONDIN, CHIRONJA, CITRUS CITRON, GRAPEFRUIT, KUMQUAT, LEMON, LIME, MANDARIN, PUMMELO, SATSUMA MANDARIN, SOUR ORANGE, SWEET ORANGE, TANGELO, TANGERINE, TANGOR

FOR USE ONLY IN PERMANENTLY ESTABLISHED GROVES IN ARIZONA, CALIFORNIA, FLORIDA, LOUISIANA AND TEXAS

GENERAL INFORMATION

Goal 4F is effective as a preemergence and/or postemergence herbicide when used alone or in recommended tank mix combinations, for the control of certain annual broadleaf weeds in nonbearing citrus plantings. Goal 4F may be applied to newly planted trees or to young trees that will not bear fruit within one year.

The most effective postemergence weed control is achieved when Goal 4F is applied to seedling weeds at the recommended growth stage. For postemergence control of certain grass and broadleaf weeds, a tank mix of Goal 4F with paraquat (Gramoxone Herbicide) or glyphosate (Roundup® Herbicide) can be used.

For residual grass control in citrus, a tank mixture of Goal 4F with Devrinol® Herbicide, simazine, Solicam® Herbicide or Surflan* Herbicide can be used. Contact herbicides such as paraquat (Gramoxone Herbicide) or glyphosate (Roundup Herbicide) may also be added to the tank mixture.

Check individual product labels to determine suitability and use rates for various crops.

Goal 4F USED ALONE

GEOGRAPHIC USE DIRECTIONS ARIZONA AND CALIFORNIA

DOSAGE

Goal 4F is recommended for postemergence control at 1 to 4 pints (0.5 to 2.0 lb active) per broadcast acre. For preemergence control of susceptible weeds, use 4 pints (2.0 lb active) per broadcast acre.

WEEDS CONTROLLED POSTEMERGENCE (weeds up to 4 inches high) - Apply 1 to 4 pints (0.5 to 2.0 lb active) of Goal 4F per broadcast acre. Applications to weeds beyond this 4-inch stage may result in partial control.

| | |
|----------------------|--------------------|
| CHEESEWEED (MALVA) | MINERSLETTUCE |
| FIDDLENECK, COAST | NETTLE, BURNING |
| FILAREE, BROADLEAF † | PIGWEEED, REDROOT |
| FILAREE, REDSTEM † | REDMAIDS |
| FILAREE, WHITESTEM † | SHEPHERDSPURSE |
| GROUNDSEL, COMMON | SOWTHISTLE, ANNUAL |
| HENBIT | |

† Goal 4F at the 4-pint rate (2.0 lb active) will provide control of filaree not exceeding the 4-inch stage. Applications to filaree beyond the 4-inch stage may result in partial control.

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WEEDS CONTROLLED PREEMERGENCE - Apply 2.5 to 4 pints (1.25 to 2.0 lb active) of Goal 4F per broadcast acre.

| | |
|-----------------------|--------------------|
| BURCLOVER | LETTUCE, PRICKLY |
| CHEESEWEED (MALVA) | PIGWEEED, REDROOT |
| FIDDLENECK, COAST | PURSLANE, COMMON |
| FILAREE, BROADLEAF | REDMAIDS |
| FILAREE, REDSTEM | ROCKET, LONDON |
| FILAREE, WHITESTEM | SHEPHERDSPURSE |
| GROUNDSEL, COMMON | SOWTHISTLE, ANNUAL |
| HENBIT | SPURGE, PROSTRATE |
| KNOTWEED, PROSTRATE | SPURGE, SPOTTED |
| LAMBSQUARTERS, COMMON | |

FLORIDA, LOUISIANA AND TEXAS

DOSAGE

Goal 4F is recommended for postemergence control at 1 to 4 pints (0.5 to 2.0 lb active) per broadcast acre. For preemergence control of susceptible weeds, Goal 4F is recommended at 4 pints (2.0 lb active) per broadcast acre.

WEEDS CONTROLLED POSTEMERGENCE - Apply 1 to 4 pints (0.5 to 2.0 lb active) of Goal 4F per broadcast acre. The lower rate is recommended for the control of susceptible seedling weeds in the early postemergence stage, up to the 2-leaf stage. The higher rate (2.0 lb active) should be used for weeds up to the 4-leaf stage. Applications to weeds beyond the 4-leaf stage may result in partial control.

| | |
|--|--------------------------|
| BALSAMAPPLE | PEPPERWEED, VIRGINIA |
| CUDWEED, NARROWLEAF [†] | PIGWEEED, REDROOT |
| EVENINGPRIMROSE, CUTLEAF ^{††} | POINSETTIA, WILD |
| GROUNDCHERRY, CUTLEAF | PURSLANE, COMMON |
| GROUNDCHERRY, WRIGHT | PUSLEY, FLORIDA |
| LAMBSQUARTERS, COMMON | SIDA, PRICKLY (TEAWEEED) |
| MORNINGGLORY, ANNUAL | SMARTWEED, PENNSYLVANIA |
| NIGHTSHADE, AMERICAN BLACK | SOWTHISTLE, ANNUAL |
| NIGHTSHADE, BLACK | |

WEEDS CONTROLLED PREEMERGENCE - Apply 4 pints (2.0 lb active) of Goal 4F per broadcast acre.

| | |
|--|--------------------------|
| CUDWEED, NARROWLEAF | POINSETTIA, WILD |
| EVENINGPRIMROSE, CUTLEAF ^{††} | PUSLEY, FLORIDA |
| GROUNDCHERRY, CUTLEAF | SIDA, PRICKLY (TEAWEEED) |
| LAMBSQUARTERS, COMMON | SMARTWEED, PENNSYLVANIA |
| NIGHTSHADE, AMERICAN BLACK | SOWTHISTLE, ANNUAL |
| NIGHTSHADE, BLACK | SPURGE, PROSTRATE |
| PEPPERWEED, VIRGINIA | SPURGE, SPOTTED |
| PIGWEEED, REDROOT | |

[†] Maximum 0.5-inch diameter.

^{††} Highest rate and/or multiple applications may be required for acceptable control. Do not apply more than 8 pints (4.0 lb active) per broadcast acre during any 12-month period as a result of multiple applications.

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ALL STATES - ARIZONA, CALIFORNIA, FLORIDA, LOUISIANA AND TEXAS**TIMING AND METHOD OF APPLICATION**

Goal 4F should be directed to the soil and the base of trees. Avoid direct spray contact on the citrus foliage. Use a low-pressure sprayer equipped with a breakaway boom and flat fan nozzles. An off-center (OC) nozzle positioned at the end of the boom may be desired.

| Weed Stage | SPRAY VOLUME (Gallons of Water Per Acre) |
|--|---|
| Preemergence | 40 or more |
| Postemergence up to 4-inch or 4-leaf stage | 40 or more |
| Exceeding 4-inch or 4-leaf stage | 100 or more |

TANK MIXES WITH Goal 4F

IMPORTANT: Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.

DOSAGE

For preemergence control of susceptible grass and broadleaf weeds in citrus plantings, a tank mixture of Goal 4F with Devrinol Herbicide, simazine, Solicam Herbicide or Surflan Herbicide can be applied. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

For postemergence control of susceptible grass and broadleaf weeds, a tank mixture of paraquat (Gramoxone Herbicide) or glyphosate (Roundup Herbicide) with Goal 4F or combinations of Goal 4F plus Devrinol, simazine, Solicam Herbicide or Surflan Herbicide can be used. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

WEEDS CONTROLLED

In addition to the weeds controlled by Goal 4F used alone, control of susceptible weeds listed on the respective labels for the following products is also obtained:

| | |
|-------------------------|------------|
| Devrinol | simazine † |
| paraquat (Gramoxone) | Solicam |
| glyphosate (Glyphomax*) | Surflan |

† In addition, provides preemergence control of horseweed (marestalk).

CITRUS (NONBEARING)**SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe the GENERAL USE RESTRICTIONS listed at the end of this label.

- Apply Goal 4F only to nonbearing citrus trees.
- Do not apply more than 4 pints of Goal 4F (2.0 lb active) per broadcast acre in a single application or more than 8 pints (4.0 lb active) per broadcast acre during any 12-month period as a result of multiple applications.
- Goal 4F or any of the combinations recommended on this label should only be applied to healthy growing trees.
- Do not apply during periods of new foliage growth. Applications should be made after foliage has fully expanded and hardened off.
- Direct spray toward the base of trees. Avoid direct sprays contact on the citrus foliage.

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COFFEE**BEARING AND NONBEARING COFFEE IN HAWAII****GENERAL INFORMATION**

Goal 4F is effective as a preemergence herbicide when used alone for the control of certain annual broadleaf weeds in bearing and nonbearing coffee plantings.

For postemergence control of certain grass and broadleaf weeds, a tank mixture of either paraquat (Gramoxone) or glyphosate (Roundup) with Goal 4F can be applied to seedling weeds.

Check individual product labels to determine suitability and use rates for crop.

Goal 4F USED ALONE**DOSAGE**

For preemergence control of susceptible weeds, Goal 4F is recommended at 1 to 4 pints (0.5 to 2.0 lb active) per broadcast acre as a preemergence application directed to the orchard floor beneath coffee plants, or at a dosage of up to 2 pints per broadcast acre as a pre-transplant application.

For directed spray applications, coffee transplants must be healthy and of suitable size for field transplanting. Avoid spray contact with coffee foliage as injury may result.

Goal 4F may be applied postemergence (over the top) to dormant coffee transplants. Applications must only be made prior to bud break to avoid possible phytotoxicity to the coffee foliage. Over-the-top applications made after buds start to swell may result in injury to the coffee plant and are not recommended.

Dosages listed on this label are for broadcast application. For banded application, the amount of Goal 4F used per acre should be reduced according to the following formula:

$$\frac{\text{Band Width (in inches)}}{\text{Row Width (in inches)}} \times \text{Rate per Broadcast Acre} = \text{Amount Needed per Acre for Banded Application}$$

WEEDS CONTROLLED POSTEMERGENCE

Apply 1 to 4 pints (0.5 to 2.0 lb active) of Goal 4F per broadcast acre. Applications to weeds beyond the four leaf stage may result in partial control.

PURSLANE, COMMON SPURGE, GARDEN

WEEDS CONTROLLED PREEMERGENCE

Apply 1 to 4 pints (0.5 to 2.0 lb active) of Goal 4F per broadcast acre.

AGERATUM PURSLANE, COMMON
 BUTTONWEED SPURGE, GARDEN
 CROTALARIA

TIMING AND METHOD OF APPLICATION

Do not apply preplant or preemergence to direct seeded coffee.

Treatments should only be applied to healthy coffee stock (as determined by standard commercial growing practices). Care must be taken to prevent direct spray contact with foliage. Coffee foliage receiving accidental spray or drift may be injured.

As a preemergence or postemergence treatment to weeds, apply in a minimum of 30 gallons of water per acre. Use higher volumes to ensure adequate coverage in high densities of emerged weeds or heavy trash. Goal 4F should be directed to the soil and the base of the tree. Use of a low-pressure sprayer equipped with a breakaway boom and flat fan or off-center (OC) nozzles is recommended. Spray equipment should be calibrated carefully before each use.

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TANK MIXES WITH Goal 4F

IMPORTANT: Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.

For postemergence control of susceptible grass and broadleaf weeds in coffee plantings, a tank mixture of Goal 4F with either glyphosate (Roundup Herbicide) or paraquat (Gramoxone Herbicide) may be applied as a directed spray. Apply at recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

WEEDS CONTROLLED POSTEMERGENCE

In addition to the weeds controlled by Goal 4F used alone, control of susceptible weeds listed on the respective labels for the following products is also obtained.

paraquat (Gramoxone) glyphosate (Glyphomax)

COFFEE**SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Do not apply preplant or preemergence to direct-seeded coffee.
- Direct spray toward the base of the trees. Avoid spray contact with foliage.
- Goal 4F may be applied as a postemergence (over the top) application to dormant transplants. Do not apply over the top to coffee transplants after buds start to swell.
- Goal 4F or any of the combinations recommended on this label should be applied to only healthy growing trees/transplants under standard commercial growing practices.
- Do not apply more than 4 pints (2.0 lb active) per broadcast acre of Goal 4F in a single application or 12 pints (6.0 lb active) per broadcast acre per year.
- Do not apply Goal 4F within one (1) day of harvesting.
- Applications of Goal 4F during periods of rapid new foliage growth may cause injury.

**CONIFER SEEDBEDS, TRANSPLANTS, CONTAINER STOCK and
SELECTED FIELD GROWN DECIDUOUS TREES**

Goal 4F is effective as a preemergence and/or postemergence herbicide for the control of certain annual grass and broadleaf weeds in conifer seedbeds, transplant and container stock, and in selected field-grown deciduous trees. Preemergence weed control is most effective when spray is applied to clean, weed-free soil surfaces. Treated soil surfaces should not be disturbed as the herbicidal effectiveness of Goal 4F may be decreased. Seedling weeds are controlled during emergence as they come in contact with the soil-applied herbicide. The most effective postemergence weed control is achieved when Goal 4F is applied to seedling weeds less than 4 inches in height.

Occasionally after the use of Goal 4F, spotting, crinkling, or flecking may appear on leaves of conifer and deciduous species. Leaves that receive direct or indirect (drift) spray contact may be injured. The conifer and deciduous species typically outgrow this condition rapidly and develop normally.

IMPORTANT: When applied as directed, the conifer and selected deciduous species listed on this label have shown tolerance to Goal 4F. It is impossible, however, to evaluate this product on all varieties, biotypes and cultivars of listed species on this label or under all possible growing conditions. The user should exercise reasonable judgment and caution with this product. Until familiar with results under user growing conditions, limit application of this product to a few plants in a small treated area to determine plant tolerance and extent of injury if such occurs, prior to initiating large-scale applications.

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WEEDS CONTROLLED

When Goal 4F is applied preemergence or postemergence at recommended dosages and weed stages, the following grasses and broadleaf weeds are controlled.

| | |
|------------------------------------|----------------------------------|
| BARNYARDGRASS [†] | MUSTARD, BLUE |
| BEDSTRAW, CATCHWEED | MUSTARD, TUMBLE |
| BITTERCRESS, LESSER | MUSTARD, WILD |
| BLUEGRASS, ANNUAL [†] | NETTLE, BURNING |
| BUCKWHEAT, WILD | NIGHTSHADE, BLACK |
| BURCLOVER | NIGHTSHADE, HAIRY |
| CARPETWEED | OATS, WILD |
| CLOVER, RED [†] | ORACH, RED |
| CLOVER, WHITE [†] | PEPPERWEED, YELLOWFLOWER |
| COCKLEBUR, COMMON | PIGWEEED, PROSTRATE |
| CRABGRASS, LARGE [†] | PIGWEEED, REDROOT |
| FIDDLENECK, COAST [†] | PIMPERNEL, SCARLET |
| FILAREE, BROADLEAF | PURSLANE, COMMON |
| FILAREE, REDSTEM | REDMAIDS |
| FIREWEED (FROM SEED) | ROCKET, LONDON |
| FLIXWEED | SANDSPURRY, RED |
| FOXTAIL, GIANT [†] | [†] SHEPHERDSPURSE |
| GOOSEGRASS [†] | SIDA, PRICKLY |
| GROUNDCHERRY, CUTLEAF | SMARTWEED, PENNSYLVANIA |
| GROUNDCHERRY, WRIGHT | SORREL, RED (FROM SEED) |
| GROUNDSEL, COMMON | SOWTHISTLE, ANNUAL |
| HENBIT | SPEEDWELL, BIRDSEYE |
| JIMSONWEED | SPURGE, PROSTRATE ^{††} |
| KNOTWEED, PROSTRATE | SPURGE, SPOTTED ^{††} |
| LADYSTHUMB | SPURRY, CORN |
| LAMBSQUARTERS, COMMON | TANSYMUSTARD |
| LETTUCE, PRICKLY | THISTLE, BULL ^{††} |
| MALLOW, LITTLE | THISTLE, RUSSIAN |
| MAYWEED | VELVETLEAF |
| MINERSLETTUCE | WITCHGRASS |
| MORNINGGLORY, IVYLEAF [†] | WOODSORREL, YELLOW ^{††} |
| MORNINGGLORY, TALL [†] | |

[†] Highest rate and/or multiple applications may be required for acceptable control.

^{††} Preemergence control only.

Goal 4F is most effective when applied preemergence to annual grasses. Postemergence applications should be made to seedling grasses not exceeding the 2-leaf stage. The addition of 0.25% (2 pints/100 gallons of spray solution) of Latron AG-98 or comparable 80% active nonionic surfactant, cleared for application on growing crops, enhances the Goal 4F activity on emerged weeds.

When determining an appropriate use rate where a range of rates are provided, use higher rates where heavy weed pressure is anticipated, or where medium and fine soil textures exist and high organic matter soils are present.

CONIFER SEEDBEDS

To assist in the establishment of conifer seedbeds, Goal 4F can be applied as a preemergence application following seeding. Postemergence applications should be delayed until a minimum of 5 weeks after emergence of the conifer seedlings.

During periods of cool, cloudy weather, make certain that seedlings have hardened off prior to spraying.

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Conifers are tolerant to preemergence and postemergence applications of Goal 4F. Goal 4F will provide both postemergence and residual preemergence control of many broadleaf weeds and annual grass species.

CONIFER SPECIES

Goal 4F may be applied to conifer seedbeds of species:

| | |
|--------------------|------------------------------|
| DOUGLAS FIR | <i>Pseudotsuga menziesii</i> |
| FIR | |
| FRASER | <i>Abies fraseri</i> |
| GRAND | <i>Abies grandis</i> |
| NOBLE | <i>Abies procera</i> |
| HEMLOCK | |
| EASTERN HEMLOCK | <i>Tsuga canadensis</i> |
| PINE | |
| AUSTRIAN | <i>Pinus nigra</i> |
| EASTERN WHITE | <i>Pinus strobus</i> |
| HIMALAYAN | <i>Pinus wallichiana</i> |
| JACK | <i>Pinus banksiana</i> |
| LOBLOLLY | <i>Pinus taeda</i> |
| LODGEPOLE | <i>Pinus contorta</i> |
| LONGLEAF | <i>Pinus palustris</i> |
| MONTEREY | <i>Pinus radiata</i> |
| MUGHO | <i>Pinus mugo</i> |
| PONDEROSA | <i>Pinus ponderosa</i> |
| SCOTCH | <i>Pinus sylvestris</i> |
| SHORTLEAF | <i>Pinus echinata</i> |
| SLASH | <i>Pinus elliotii</i> |
| VIRGINIA | <i>Pinus virginiana</i> |
| SPRUCE | |
| BLUE | <i>Picea pungens</i> |
| DWARF ALBERTA | <i>Picea glauca Conica</i> |
| NORWAY | <i>Picea abies</i> |
| SITKA | <i>Picea sitchensis</i> |

PREEMERGENCE DOSAGE

Apply 0.5 to 2 pints (0.25 lb to 1.0 lb active) of Goal 4F per broadcast acre as a preemergence application prior to conifer emergence. Where grass weeds are present, a rate of 1 to 2 pints (0.5 to 1.0 lb active) of Goal 4F per broadcast acre is recommended. In known areas of high weed competition, 2 pints (1.0 lb active) of Goal 4F per broadcast acre are recommended.

TIMING AND METHOD OF APPLICATION

Goal 4F should be thoroughly mixed with clean water at recommended concentration and applied at 20 to 40 psi in a minimum of 20 gallons of water per treated acre. Broadcast to beds and irrigate prior to weed emergence with 1/2 to 3/4 inch of sprinkler irrigation.

POSTEMERGENCE DOSAGE

Apply 0.5 to 1 pint (0.25 lb to 0.5 lb active) of Goal 4F per broadcast acre with each postemergence application.

Depending of subsequent weed flushes, multiple applications may be necessary to achieve season-long weed control.

TIMING AND METHOD OF APPLICATION

Postemergence applications should be delayed until a minimum of 5 weeks after emergence of conifer seedlings. During periods of cool, cloudy weather, make certain that seedlings have hardened off prior to spraying. Application should be made to seedling weeds (less than 4 inches in height). Goal 4F should

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be thoroughly mixed with clean water at recommended concentration and applied as a broadcast application at 20 to 40 psi in a minimum of 20 gallons of water per treated acre.

CONIFER TRANSPLANTS AND CONTAINER STOCK (INCLUDES 2-0 SEEDLING AND CHRISTMAS TREE PLANTINGS)

Many container-grown conifers and conifer transplants are tolerant to preemergence and postemergence applications of Goal 4F. Applied postemergence, Goal 4F will provide both postemergence and preemergence control of many broadleaf weeds and grasses listed in the "Weeds Controlled" Section above. Postemergence applications should be applied before bud break or after foliage has had an opportunity to harden off. Conifers may be transplanted from seedbeds and sprayed directly providing bud break has not occurred.

The following conifer species in addition to species listed under the CONIFER SEEDBED section have been shown to be tolerant to Goal 4F.

ARBORVITAE

Thuja occidentalis
Thuja orientalis

JUNIPER

Juniperus chinensis
Juniperus horizontalis
Juniperus procumbens
Juniperus sabina
Juniperus scopulorum

RED CEDAR

Juniperus virginiana

WESTERN HEMLOCK

Tsuga heterophylla

YEW

Taxus species

DOSAGE

For preemergence or postemergence weed control apply 2 to 4 pints (1.0 lb to 2.0 lb active) of Goal 4F per broadcast acre.

TIMING AND METHOD OF APPLICATION

For optimum weed control, preemergence applications should be made immediately after transplanting seedlings or to weed-free container stock. Postemergence applications should be made to weeds less than 4 inches in height. Two applications may be necessary, in fall-transplanted conifer fields, for season-long weed control. The addition of 0.25% (2 pints/100 gals. of spray solution) of Latron AG-98 or comparable 80% active nonionic surfactant, cleared for application to growing crops, enhances Goal 4F activity on emerged weeds. Goal 4F must be applied only to conifer transplants prior to bud break or after foliage has had an opportunity to harden off. Thoroughly mix with clean water at recommended concentration and apply at 20 to 40 psi in a minimum of 20 gallons of water per treated acre. Spray over the top of transplants. Heavy rainfall immediately following application to emerged weeds may reduce effectiveness.

TANK MIXTURES FOR SELECTED FIELD GROWN CONIFERS

In addition to the weeds controlled by Goal 4F used alone, tank mixes with other preemergence or postemergence herbicides registered for this use, may provide a broader spectrum of weed control. Goal 4F may be tank mixed with products containing the following active ingredients registered for use in conifer plantings:

glyphosate
napropamide
oryzalin
pendimethalin
proflaminate
pronamide
sethoxydim

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Determine the additional weed species to be controlled and based on label claims, select the product(s) that would give effective control of the targeted weed(s). When using tank mixes of two or more products, use conditions must be in accordance with the more (most) restrictive of the label limitations and precautions of the mixing partners.

IMPORTANT: Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.

CONIFER - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Do not apply more than 4 pints (2.0 lb active) of this product per broadcast acre per year.
- **Not for conifer release in forest management programs or for forest regeneration applications.**
- Do not apply Goal 4F in an enclosed greenhouse structure as injury to plant foliage may result.
- Do not store or transport treated container stock in an enclosed structure until completion of 4 irrigations (minimum 21 days) as injury to non-labeled plants may occur.
- Always apply Goal 4F only to healthy conifer stock. Do not apply Goal 4F to conifers that are under stress from excessive fertilizer or soil salts, disease, nematodes, frost, drought, flooding, previously applied pesticides, soil insects, or winter injury, as severe injury may result.
- Do not graze or feed livestock forage cut from areas treated with Goal 4F.

SELECTED FIELD-GROWN DECIDUOUS TREES

Many field-grown deciduous trees are tolerant to applications of Goal 4F directed to the soil and base of the plant. Goal 4F will provide both preemergence and postemergence control of many broadleaf weeds and grasses.

| DECIDUOUS TREE SPECIES | |
|------------------------------|--|
| Almond ^{††} | <i>Prunus spp.</i> |
| Apple ^{††} | <i>Malus X domestica</i> |
| Apricot ^{††} | <i>Prunus spp.</i> |
| Ash, Green | <i>Fraxinus pennsylvanica</i> |
| Ash, White | <i>Fraxinus americana</i> |
| Birch, River | <i>Betula nigra</i> |
| Cherry ^{††} | <i>Prunus spp.</i> |
| Chestnut ^{††} | <i>Castanea spp.</i> |
| Crabapple ^{††} | <i>Malus spp.</i> |
| Dogwood | <i>Cornus florida</i> |
| Eucalyptus | <i>Eucalyptus viminalis</i> <i>Eucalyptus pulverulenta</i> <i>Eucalyptus camaldulensis</i> |
| Filbert ^{††} | <i>Corylus spp.</i> |
| Lilac | <i>Syringa vulgaris</i> |
| Locust, Black | <i>Robinia pseudoacacia</i> |
| Maple, Black [†] | <i>Acer nigrum</i> |
| Maple, Red [†] | <i>Acer rubrum</i> |
| Maple, Sugar [†] | <i>Acer saccharum</i> |
| Myrtle, Crepe | <i>Lagerstroemia indica</i> |
| Nectarine ^{††} | <i>Prunus spp.</i> |
| Nut, Hickory ^{††} | <i>Carya sp.</i> |
| Nut, Macadamia ^{††} | <i>Macadamia ternifolia</i> |
| Oak, Chestnut | <i>Quercus prinus.</i> |
| Oak, Pin | <i>Quercus palustris</i> |

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| | |
|-----------------------------|--------------------------------|
| Oak, Red | <i>Quercus. rubra</i> |
| Oak, Water | <i>Quercus nigra</i> |
| Oak, Willow | <i>Quercus phellos</i> |
| Olive, Russian | <i>Elaeagnus angustifolia</i> |
| Poplar | <i>Populus spp.</i> |
| Poplar, Tulip | <i>Liriodendron tulipifera</i> |
| Peach ^{††} | <i>Prunus persica</i> |
| Pear ^{††} | <i>Pyrus spp.</i> |
| Pecan ^{††} | <i>Carya spp.</i> |
| Pistachio ^{††} | <i>Pistacia vera</i> |
| Plum ^{††} | <i>Prunus spp.</i> |
| Prune ^{††} | <i>Prunus spp.</i> |
| Redbud | <i>Cercis canadensis</i> |
| Sweetgum | <i>Liquidamber styraciflua</i> |
| Sycamore | <i>Platanus occidentalis</i> |
| Walnut, Black ^{††} | <i>Juglans nigra</i> |

[†] Do not apply to maple trees used for production of maple sap or maple syrup.

^{††} Apply as directed to nonbearing trees. For bearing treefruit, nut and vine crops, refer to Treefruit/Nut/Vine section of this label for use directions.

DOSAGE

Apply 1 to 4 pints (0.5 lb to 2.0 lb active) of Goal 4F per acre as a spray onto to the soil area surrounding deciduous plants for preemergence or early postemergence weed control. This product may be applied as a single or split application.

Do not apply more than 4 pints of product per season.

For spot treatments, refer to the following table for dosage recommendations. Sprays must be uniform and applied to the soil on a spray-to-wet basis. When spraying to control weeds on a preemergence or postemergence basis, 1 gallon of spray mixture should cover 400 square feet (this is equivalent to applying Goal 4F at a use rate of approximately one gallon per acre in a spray volume of 110 gallons per acre). It is recommended that an 80% active nonionic surfactant be added to the spray mixture at a rate of 1 tablespoon (0.5 fluid ounces) per gallon of spray when making postemergence applications.

| Pounds Active/Acre | Pints Goal 4F/Acre | Fluid Ounces (milliliters) of Goal 4F in one gallon of spray mix to treat 400 sq ft | Fluid Ounces (milliliters) of Goal 4F in one quart of spray mix to treat 100 sq ft |
|--------------------|--------------------|---|--|
| 2 | 4 | 0.6 (17.5) | 0.15 (4.5) |

TIMING

Goal 4F can be applied after transplanting or to established deciduous trees. For optimum weed control, applications should be made prior to weed germination.

For maximum safety to deciduous species mentioned on this label, post-directed applications of Goal 4F should be made to the soil prior to bud swell in the spring or after trees have initiated dormancy in the fall. Care must be taken to avoid contact of spray drift or mist with foliage of or green bark of deciduous trees.

Goal 4F may be phytotoxic to the foliage of non-target plants. Avoid making applications of this product under conditions that favor drift to non-target areas.

Note: Applications made after bud swell may result in injury to deciduous trees and are not recommended. If a non-dormant application is required due to weed competition, do not apply during periods of new foliage growth. Applications should be made after foliage has fully expanded and hardened off. Direct

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spray toward the soil at the base of the trees and use greater than 50 gallons of water per acre. Splashing soil can carry Goal 4F, which may injure the leaves of some deciduous trees.

METHOD OF APPLICATION

Goal 4F should be directed to the soil. Avoid direct spray or drift onto foliage, flowers or green bark. Apply in 20 or more gallons of water per acre to provide uniform spray distribution and coverage to the soil surface. Use higher volumes to ensure adequate soil coverage in high densities of emerged weeds or heavy trash. Thorough spray coverage is essential to maximize the postemergence activity of Goal 4F. Use a low-pressure (20 to 40 psi.) sprayer. The use of spray shields that reduce exposure of foliage and bark to Goal 4F spray is suggested. Spray equipment should be calibrated carefully before each use.

TANK MIXTURES FOR SELECTED FIELD GROWN DECIDUOUS TREES

In addition to the weeds controlled by Goal 4F used alone, tank mixes with other preemergence or postemergence herbicides registered for this use, may provide a broader spectrum of weed control. Goal 4F may be tank mixed with products containing the following active ingredients registered for use in conifer plantings:

glyphosate
 napropamide
 oryzalin
 pendimethalin
 prodiamine
 pronamide
 sethoxydim

Determine the additional weed species to be controlled and based on label claims, select the product(s) which would give effective control of the targeted weed(s). When using tank mixes of two or more products, use conditions must be in accordance with the more (most) restrictive of the label limitations and precautions of the mixing partners.

IMPORTANT: Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.

FIELD-GROWN DECIDUOUS TREES SPECIFIC USE RESTRICTIONS

- **Do not** apply more than 4 pints (2.0 lb active) of this product per broadcast acre per year.
- The use directions described here for field-grown deciduous trees do not apply for bearing treefruit, nut and vine crops.
- For selected bearing treefruit, nut and vine crops, refer to Treefruit/Nut/Vine section of this label use directions.
- Apply this product to the soil surface surrounding trees prior to bud swell or after trees have initiated dormancy in the fall. Although not recommended, if a non-dormant application is required, apply as a directed spray when foliage has fully expanded and hardened off. Do not apply during periods of new foliage growth.
- Avoid direct or indirect spray contact to foliage flowers and green bark.
- **Do not** apply this product when weather conditions favor drift. Avoid drift to non-target areas. Goal 4F is phytotoxic to plant foliage.
- **Do not** apply Goal 4F to trees that have been weakened or are under stress from excessive fertilizer or soil salts, disease, nematodes, frost, wind injury, drought, flooding, previously applied pesticides, insects, or winter injury as severe injury may result.
- **Do not** graze or feed livestock forage cut from areas treated with Goal 4F.

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CORN

FOR USE ONLY AS DIRECTED SPRAY ON FIELD CORN IN CONJUNCTION WITH THE USDA WITCHWEED ERADICATION PROGRAM IN NORTH CAROLINA AND SOUTH CAROLINA

GENERAL INFORMATION

Goal 4F is a selective herbicide for the control of witchweed (*Striga asiatica*), and works both preemergence and postemergence against witchweed.

DOSAGE

Use 1 to 1.5 pints of Goal 4F (0.5 to 0.75 lb active) per acre for the first application. The 1 pint rate (0.5 lb active) per acre should be the standard use rate, with the 1.5 pint rate (0.75 lb active) per acre for isolated infestations. Repeat treatments should be made at rates of 0.5 to 1 pint (0.25 to 0.5 lb active) per acre. Applications should be made in 10 to 30 gallons of water per acre. Use Latron AG-98 spreader in the spray mixture at the rate of 0.25% by water volume or 1 quart in 100 gallons of spray mix.

TIMING AND METHOD OF APPLICATION

Fields in the witchweed infested area selected for treatment with Goal 4F should be examined during the early part of the growing season to determine uniformity of corn stand and grass weed pressure. Weedy fields should be cultivated prior to the initial application so as to obtain the best possible soil coverage in the first spray application. Apply during May-August to emerged witchweed before bloom or as soon as possible after bloom appears, to avoid seed set. Corn should have a minimum height of 24 inches at the first application. After this application has been made, the fields should be inspected regularly for any breakthrough of the witchweed. If breakthrough occurs, then a second spray should be applied like the first. This application will be made postemergence to the witchweed, preferably before bloom or as soon as possible past the first appearance of witchweed bloom, to avoid seed set.

In all applications direct the Goal 4F spray at the base of the corn plant and uniformly over the entire row surface. Do not spray over the top of the corn, as this may result in severe corn injury. Spray droplets contacting the lower leaves will cause necrotic spotting or streaking of sprayed tissue. Spray should contact only the lower 3 to 8 inches of the corn stalk and any leaves in this zone.

CORN - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Do not apply more than 2.5 pints of Goal 4F (1.25 lb active) per acre to a corn crop during the growing season.
- Do not apply any application within 60 days of harvest.
- Do not use corn plants from a treated field for green chop, ensilage, forage, or fodder.

COTTON

POST-DIRECTED SPRAY

GENERAL INFORMATION

Goal 4F is a selective herbicide for use as a post-directed application for broadleaf weed control in cotton. Cotton leaves that are accidentally sprayed will exhibit necrotic spotting and may drop from the plant, therefore, care must be exercised to avoid spray contact with the cotton leaves. Crop response may be enhanced if applications are made when excessive soil moisture is present or if rainfall occurs following application. Cotton will outgrow this condition and continue to develop normally.

DOSAGE

Goal 4F is recommended as a post-directed application at 0.5 to 1 pint (0.25 to 0.5 lb active) per acre.[†] Optimum control is achieved when 1 pint of Goal 4F (0.5 lb active) per acre[†] are applied to weed seedlings not exceeding 4 true leaves. Effective control of succulent weed seedlings in the 2 to 3 leaf stage can usually be obtained when 0.5 pint of Goal 4F (0.25 lb active) per acre[†] are applied. See MIXING

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DIRECTIONS for surfactant recommendation. Weeds should be in the seedling stage, young and actively growing. Do not count cotyledon leaves.

† Dosages listed are for broadcast application. For banded application, the amount of Goal 4F used per acre should be reduced according to the following formula:

$$\frac{\text{Band Width (in inches)}}{\text{Row Width (in inches)}} \times \text{Rate per Broadcast Acre} = \text{Amount Needed per Acre for Banded Application}$$

WEEDS CONTROLLED POSTEMERGENCE

When Goal 4F is applied as a post-directed application at the recommended weed stage and dosage in cotton, the following weeds are controlled:

- | | |
|---------------------------------------|---------------------------|
| COCKLEBUR, COMMON | NIGHTSHADE, HAIRY |
| CROTON, TROPIC | PIGWEEED, REDROOT |
| GROUNDCHERRY, CUTLEAF | POINSETTIA, WILD † |
| GROUNDCHERRY, WRIGHT | PURSLANE, COMMON |
| JIMSONWEED | SESBANIA, HEMP |
| LAMBSQUARTERS, COMMON | SICKLEPOD †† |
| MORNINGGLORY, ANNUAL (UP TO 4 LEAF) † | SIDA, PRICKLY (TEAWEED) † |
| NIGHTSHADE, AMERICAN BLACK | SMARTWEED, PENNSYLVANIA |
| NIGHTSHADE, BLACK | VELVETLEAF |

† Multiple applications may be required for acceptable control.

†† Post-direct applications of Goal 4F will kill or suppress seedlings not exceeding the one true leaf stage.

TIMING

SOUTHERN COTTON

ALABAMA, ARKANSAS, GEORGIA, LOUISIANA, MISSISSIPPI, MISSOURI, NEW MEXICO, NORTH CAROLINA, OKLAHOMA, SOUTH CAROLINA, TENNESSEE, TEXAS and VIRGINIA

Cotton plant height must be a minimum 6 inches or greater. Application to cotton plants less than 6 inches tall may result in severe crop injury and is not recommended. In cotton 6 to 8 inches tall, Goal 4F must be applied using **rigid** precision ground sprayer equipment. The use of spray shields is recommended to avoid spray contact with cotton foliage. Use branch lifters or shields if excessive spray contact on larger cotton plants (8 inches or greater) cannot be avoided by the directed spray.

WESTERN COTTON

ARIZONA AND CALIFORNIA

Cotton plant height must be a minimum 6 inches or greater. Application to cotton plants less than 6 inches tall may result in severe crop injury and is not recommended. In cotton 6 to 8 inches tall, Goal 4F must be applied using **rigid** precision ground sprayer equipment. The use of spray shields is recommended to avoid spray contact with cotton foliage. Use branch lifters or shields if excessive spray contact on larger cotton plants (8 inches or greater) cannot be avoided by the directed spray. To obtain the maximum benefit of postemergence activity, encourage weed emergence by irrigating prior to spraying. Irrigate immediately following herbicide application to obtain greatest benefit of preemergence activity from Goal 4F on nightshade and groundcherry species.

METHOD OF APPLICATION

SOUTHERN AND WESTERN COTTON

Accurate, uniform placement of Goal 4F spray is essential for effective weed control and to minimize cotton injury. As a directed postemergence application, Goal 4F should be applied at 20 to 25 psi using 20 to 40 gallons of spray on a broadcast acre basis. **Do not** exceed 25 psi. Spray should be directed

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towards the base of the cotton plant. Cotton foliage receiving accidental spray or drift may be injured. Weeds should be in the seedling stage, young and actively growing.

Goal 4F can be applied using a post-direct spray rig with only 2 flat fan nozzles per row, 1 nozzle on each side of the row. Additional care should be taken when adjusting sprayer prior to application. For best coverage, it is suggested to use 4 flat fan nozzles per row, 2 nozzles on each side of the row. The 2 forward nozzles should point forward and downward while the rear nozzles should point to the rear and downward. With either sprayer system, nozzles should be adjusted to cover the weed foliage with minimum contact to the cotton plant. **Do not use cone nozzles.**

TANK MIXES WITH Goal 4F

IMPORTANT: Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.

DOSAGE

For postemergence control of susceptible grass and broadleaf weeds in cotton, a tank mixture of Goal 4F with either Bladex® Herbicide, Karmex® Herbicide (diuron) or MSMA Herbicide can be applied as a post-directed application. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

COTTON - SOUTHERN AND WESTERN

SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- **SOUTHERN COTTON:** Do not apply more than 1 pint (0.5 lb active) per broadcast acre of Goal 4F per season as a result of a single application or multiple applications. Do not apply within 90 days of harvest.
- **WESTERN COTTON:** Do not apply more than 1 pint (0.5 lb active) of Goal 4F per broadcast acre in a single application, or more than a total of 2 pints (1.0 lb active) of Goal 4F per broadcast acre per season as a result of multiple applications. Do not apply within 75 days of harvest.

COTTONWOOD

GENERAL INFORMATION

Goal 4F is an effective herbicide for postemergence and preemergence control of certain broadleaf weeds in cottonwood plantings. Goal 4F may be applied postemergence or be post-directed to the base of the cottonwood tree. Applications must only be made prior to bud break to avoid possible phytotoxicity to the cottonwood foliage. Applications made after bud break may result in injury to the cottonwood plant and are not recommended.

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DOSAGE

Apply 2 to 4 pints (1.0 to 2.0 lb active) of Goal 4F per broadcast acre for preemergence and postemergence weed control. The addition of 1 quart of Latron AG-98 or a comparable 80% active nonionic surfactant per 100 gallons of spray mix will assist in spray coverage and wetting of weeds for postemergence control.

WEEDS CONTROLLED

When Goal 4F is applied preemergence or postemergence to weed seedlings (not exceeding 4-leaf stage) at recommended dosages, the following broadleaf weeds are controlled:

| | |
|-----------------------|-------------------------|
| GROUNDSEL, COMMON | MUSTARD, HEDGE |
| KNOTWEED, PROSTRATE | SHEPHERDSPURSE |
| LAMBSQUARTERS, COMMON | SMARTWEED, PENNSYLVANIA |

TIMING AND METHOD OF APPLICATION

For optimum weed control, Goal 4F should be applied prior to weed emergence. Preemergence applications should be made prior to or immediately after transplanting dormant cottonwood seedlings. Applications must be made prior to bud break of the cottonwood trees.

Goal 4F should be applied in a minimum of 20 gallons of water per acre depending upon density of emerged weeds. Spray volume should be increased as weed height and density increase. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

COTTONWOOD**SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Goal 4F should only be applied to dormant healthy cottonwood stock.
- Do not apply more than 4 pints (2.0 lb active) per treated acre per growing season as a result of single or multiple applications.

EUCALYPTUS**GENERAL INFORMATION**

Goal 4F is an effective herbicide for postemergence and preemergence control of certain broadleaf weeds in permanently established eucalyptus (*E. viminalis*, *E. pulverulenta*, and *E. camaldulensis*) plantings.

In new plantings, Goal 4F should be applied immediately prior to or immediately following transplanting of dormant eucalyptus seedlings. In established plantings, Goal 4F may be applied postemergence (over the top) or be post-directed to the base of the eucalyptus tree. Applications must only be made prior to bud break to avoid possible phytotoxicity to the eucalyptus foliage. Applications made after bud break may result in injury to the eucalyptus plant and are not recommended.

DOSAGE

Apply 2 to 4 pints (1.0 to 2.0 lb active) of Goal 4F per broadcast acre for preemergence and postemergence weed control. The addition of 1 quart of Latron AG-98 or a comparable 80% active nonionic surfactant per 100 gallons of spray mix will assist in spray coverage and wetting of weeds for postemergence control.

WEEDS CONTROLLED

When Goal 4F is applied preemergence or postemergence to weed seedlings (not exceeding 4-leaf stage) at recommended dosages, the following broadleaf weeds are controlled:

WEEDS CONTROLLED POSTEMERGENCE

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| | |
|----------------------|--------------------|
| CHEESEWEED (MALVA) | MINERSLETTUCE |
| FIDDLENECK, COAST | NETTLE, BURNING |
| FILAREE, BROADLEAF † | PIGWEEED, REDROOT |
| FILAREE, REDSTEM † | REDMAIDS |
| FILAREE, WHITESTEM † | SHEPHERDSPURSE †† |
| GROUNDSEL, COMMON †† | SOWTHISTLE, ANNUAL |
| HENBIT | |

WEEDS CONTROLLED PREEMERGENCE

| | |
|-----------------------|--------------------|
| BURCLOVER | LETTUCE, PRICKLY |
| CHEESEWEED (MALVA) | PIGWEEED, REDROOT |
| FIDDLENECK, COAST | PURSLANE, COMMON |
| FILAREE, BROADLEAF | REDMAIDS |
| FILAREE, REDSTEM | ROCKET, LONDON |
| FILAREE, WHITESTEM | SHEPHERDSPURSE |
| GROUNDSEL, COMMON | SOWTHISTLE, ANNUAL |
| HENBIT | SPURGE, PROSTRATE |
| KNOTWEED, PROSTRATE | SPURGE, SPOTTED |
| LAMBSQUARTERS, COMMON | |

† Goal 4F at the 4-pint rate (2.0 lb active) will provide control of filaree up to the 4-leaf stage.

†† Requires maximum rate and/or multiply applications for effective control.

TIMING AND METHOD OF APPLICATION

For optimum weed control, Goal 4F should be applied prior to weed emergence. Postemergence applications should be applied to seedling weeds (up to the 4-leaf stage). Applications must be made prior to bud break of either transplants or established eucalyptus trees.

Goal 4F should be applied at 20 to 40 psi in a minimum of 20 gallons of water per acre depending upon density of emerged weeds. Spray volume should be increased as weed height and density increase. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

EUCALYPTUS

SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Goal 4F should only be applied to dormant healthy eucalyptus stock.
- Do not apply more than 4 pints (2.0 lb active) per treated acre per growing season as a result of single or multiple applications.

FALLOW BED

GROUND OR AERIAL APPLICATION OF Goal 4F ON FALLOW BEDS

GENERAL INFORMATION

Goal 4F is effective as a preemergence and/or postemergence herbicide when used alone or in a tank mix combination with glyphosate (Roundup) for the control of winter annual broadleaf weeds to be planted to the crops listed below.

MINIMUM TREATMENT-PLANTING INTERVAL

| DIRECT SEEDED CROPS | Goal 4F Use Rate | |
|---------------------|------------------|------------------|
| | up to 0.5 pint/A | up to 1.0 pint/A |
| CARROT | 90 DAYS | 90 DAYS |

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| | | |
|---|-----------|-----------|
| POTATO | 60 DAYS | 60 DAYS |
| SUGAR BEET | 60 DAYS | 90 DAYS |
| OTHER ROOT/TUBER CROPS | 90 DAYS | 90 DAYS |
| ONIONS | 180 DAYS | 180 DAYS |
| OTHER BULB VEGETABLES | 180 DAYS | 180 DAYS |
| CABBAGE | 90 DAYS | 90 DAYS |
| CAULIFLOWER | 90 DAYS | 90 DAYS |
| OTHER BRASSICA CROPS | 120 DAYS | 120 DAYS |
| LETTUCE | 90 DAYS | 120 DAYS |
| OTHER LEAFY VEGETABLES (EXCEPT BRASSICA CROPS) | 120 DAYS | 120 DAYS |
| PEPPER | 90 DAYS | 120 DAYS |
| TOMATO | 60 DAYS | 120 DAYS |
| OTHER FRUITING VEGETABLES | 120 DAYS | 120 DAYS |
| CANTALOUPE | 60 DAYS | 90 DAYS |
| SQUASH | 90 DAYS | 120 DAYS |
| WATERMELON | 60 DAYS | 60 DAYS |
| OTHER CUCURBITS | 90 DAYS | 120 DAYS |
| DRY BEANS | 60 DAYS | 60 DAYS |
| PEANUT | 60 DAYS | 60 DAYS |
| OTHER LEGUME VEGETABLES | 60 DAYS | 60 DAYS |
| SAFFLOWER | 60 DAYS | 60 DAYS |
| CEREAL GRAINS | 10 MONTHS | 10 MONTHS |
| (includes barley, buckwheat, corn, proso millet, pearl millet, oats, popcorn, rice, rye, sorghum, triticale, wheat, wild rice) | | |
| COTTON AND SOYBEAN | | |

(See specific labeling for fallow beds to be planted to cotton or soybeans)

| TRANSPLANTED CROPS | Goal 4F Use Rate | |
|----------------------|------------------|------------------|
| | up to 0.5 pint/A | up to 1.0 pint/A |
| BROCCOLI | 0 DAYS | 30 DAYS |
| CABBAGE | 0 DAYS | 30 DAYS |
| CAULIFLOWER | 0 DAYS | 30 DAYS |
| CELERY | 30 DAYS | 30 DAYS |
| CONIFER | 0 DAYS | 0 DAYS |
| GARLIC | 0 DAYS | 30 DAYS |
| GRAPE/KIWI | 0 DAYS | 0 DAYS |
| ONION | 0 DAYS | 30 DAYS |
| PEPPER | 30 DAYS | 30 DAYS |
| STRAWBERRIES | 30 DAYS | 30 DAYS |
| TOMATO | 30 DAYS | 30 DAYS |
| TREEFRUIT/NUT/CITRUS | 0 DAYS | 0 DAYS |

IMPORTANT:

The fallow beds should be worked thoroughly to a depth of at least 2.5 inches prior to planting; weed control should not be expected following breaking of the soil surface. **Failure to achieve thorough and complete incorporation, or to follow the recommended treatment-planting interval, may result in stand reduction and/or vigor reduction of the planted crop.**

Crop injury may be enhanced if newly seeded crops or transplants are under stress due to drought, flooding, excessive fertilizer or soil salts, low soil temperatures, wind injury, hail, frost damage, injury from previously applied pesticides, or injury due to insects or diseases.

Exercise extreme care to avoid herbicide contact with any desirable dormant or non-dormant crop, plant, tree or vegetation as severe injury may result.

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Goal 4F USED ALONE**DOSAGE**

Goal 4F may be applied at 0.5 to 1 pint (0.25 to 0.5 lb active) per broadcast acre. The lower rate (0.5 pint per acre) should provide up to 4 weeks of preemergence control of susceptible weeds and provide postemergence control of susceptible weeds (up to 4-leaf stage). The higher rate (1 pint per acre) should provide preemergence control of susceptible weeds for up to 8 weeks and postemergence control of susceptible weeds (up to 4-leaf stage). Best preemergence control is achieved when irrigation or rainfall occurs within 3 or 4 weeks following application.

WEEDS CONTROLLED

Goal 4F should provide preemergence and postemergence [†] control of the following weeds when used at recommended dosages and weed stage.

| | |
|--------------------|--------------------|
| CHEESEWEED (MALVA) | MUSTARD, SPECIES |
| FIDDLENECK, COAST | NETTLE, BURNING |
| FILAREE, BROADLEAF | REDMAIDS |
| FILAREE, REDSTEM | ROCKET, LONDON |
| GROUNDSEL, COMMON | SHEPHERDSPURSE |
| HENBIT | SOWTHISTLE, ANNUAL |
| MINERSLETTUCE | |

[†] Thorough spray coverage is essential to maximize the postemergence activity of Goal 4F. For postemergence control when applied by air, a tank mixture of Goal 4F with glyphosate (Roundup) is recommended.

Goal 4F is a contact herbicide, therefore, coverage is essential for acceptable postemergence control. If dense weed populations, oversized weed seedlings, volunteer grains, annual grasses or unfavorable environmental conditions exist, a tank mixture of Goal 4F with glyphosate (Roundup) for postemergence control is recommended.

TANK MIXES WITH Goal 4F

IMPORTANT: Read and observe all label directions before using. Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.

DOSAGE

Goal 4F can be tank mixed with glyphosate (Roundup Herbicide) to obtain postemergence control of annual grass weeds, volunteer grains and broadleaf weeds. Tank mix 0.5 to 1 pint (0.25 to 0.5 lb active) of Goal 4F with labeled rates of glyphosate (Roundup). Apply at the recommended rates and growth stages to susceptible weed species in a manner consistent with the respective labels.

METHOD OF APPLICATION**GROUND APPLICATION**

Goal 4F should be applied in a minimum of 20 gallons of water per acre. The volume of water used should be increased as the weeds become taller and more dense. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

AERIAL APPLICATION

Goal 4F should be applied using swirl jet or hollow cone nozzles and a spray pressure less than 40 psi to deliver a minimum spray volume of 10 gallons per acre (minimum 5 GPA for Goal 4F/glyphosate (Roundup) tank mix).

Applications should be made at a height of 6 to 10 feet above the soil surface. It is suggested that the nozzles on the spray booms should not be placed any closer to the wing or rotor tips than 3/4 of the span; this will minimize the formation of spray or wing tip vortice roll. Nozzles should be spaced and positioned to produce a uniform spray pattern and to minimize or eliminate the formation of droplets 100 microns or less in diameter.

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AVOID DRIFT

WHEN APPLYING TO FALLOW BEDS, EXTREME CARE MUST BE EXERCISED TO PREVENT SPRAY DRIFT WHICH COULD RESULT IN DAMAGE TO OTHER CROPS OR DESIRABLE VEGETATION. USE THE FOLLOWING GUIDELINES WHEN AERIAL APPLICATIONS ARE TO BE MADE.

1. Do not apply when the wind direction is not stable, when inversion conditions exist, or when wind velocity exceeds 10 mph.
2. When wind speeds are 5 mph or less, maintain a minimum downwind buffer zone of at least 1/2 mile from all crops and desirable vegetation, except the following:
Maintain a minimum downwind buffer zone of:
 - 150 feet from dormant treefruit/nut/vine crops and overwintering sugar beets.
 - 650 feet from garlic, jojoba, legumes, onions, pastures, small grains, seedling sugar beets, and non-targeted vegetable fallow beds.
3. When wind speeds are between 5 and 10 mph, downwind buffer zones in excess of those listed above are suggested.
4. For upwind and side borders, maintain a minimum buffer zone of 150 feet from any non-targeted vegetable fallow bed, crop, or desirable vegetation.

The use of a drift control agent may be required by local regulations. However, the drift control agent may decrease the weed control activity.

IMPORTANT

Aerial applicators must be familiar with the EPA-registered label and follow the use precautions. Spraying Goal 4F in a manner other than as recommended is done at the user's risk. Users are responsible for all loss or damage that results from such spraying. In addition, aerial applicators should follow all applicable state and local regulations and ordinances. In interpreting the label and local regulations, the most restrictive situations should apply to avoid drift hazards.

FALLOW BED - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Read and observe all label directions before using. Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.
- Do not apply more than 1 pint (0.5 lb active) of Goal 4F per acre per fallow season.

FALLOW BED (COTTON/SOYBEANS)**GROUND OR AERIAL APPLICATION OF Goal 4F ON FALLOW BEDS (TO BE PLANTED TO COTTON OR SOYBEANS)****NOT FOR USE ON FALLOW BEDS TO BE PLANTED TO SOYBEANS IN CALIFORNIA****GENERAL INFORMATION**

Goal 4F is effective as a preemergence and/or postemergence herbicide when used alone or in a tank mix combination with glyphosate (Roundup) or paraquat (Gramoxone) for the control of winter annual broadleaf weeds in fallow beds to be planted to either cotton or soybeans. Do not apply Goal 4F within 7 days prior to planting. The fallow beds should be worked thoroughly to a depth of at least 2 inches prior to planting. It is important to thoroughly break the soil surface prior to planting. Weed control should not be expected following breaking of the soil surface.

Exercise extreme care to avoid herbicide contact with any desirable dormant or non-dormant crop, plant, tree or vegetation as severe injury may result.

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Goal 4F USED ALONE**DOSAGE**

Goal 4F may be applied at 0.5 to 1 pint (0.25 to 0.5 lb active) per broadcast acre. The lower rate (0.5 pint per acre) should provide up to 4 weeks of preemergence control of susceptible weeds and provide postemergence control of susceptible weeds (up to 4-leaf stage). The higher rate (1 pint per acre) should provide preemergence control of susceptible weeds for up to 8 weeks and postemergence control of susceptible weeds (up to 4-leaf stage). Best preemergence control is achieved when irrigation or rainfall occurs within 3 or 4 weeks following application.

WEEDS CONTROLLED

Goal 4F should provide preemergence and postemergence[†] control of the following weeds when used at recommended dosages and weed stage.

| | |
|--|------------------------------|
| BUTTERCUP, SMALLFLOWER | MUSTARD SPECIES |
| CHEESEWEED (MALVA) | NETTLE, BURNING |
| EVENINGPRIMROSE, CUTLEAF ^{††} | OXALIS ^{††} |
| FIDDLENECK, COAST | PIGWEEED, REDROOT |
| FILAREE, BROADLEAF [†] | PURSLANE, COMMON |
| FILAREE, REDSTEM [†] | REDMAIDS |
| GERANIUM, CAROLINA | ROCKET, LONDON |
| GROUNDCHERRY, CUTLEAF | SHEPHERDSPURSE ^{††} |
| GROUNDSEL, COMMON ^{††} | SIDA, PRICKLY ^{††} |
| HENBIT | SOWTHISTLE, ANNUAL |
| LADYSTHUMB | VELVETLEAF (WILD COTTON) |
| MINERSLETTUCE | |

[†] Thorough spray coverage is essential to maximize the postemergence activity of Goal 4F. For postemergence control when applied by air, a tank mixture of Goal 4F with either glyphosate (Roundup) or paraquat (Gramoxone) is recommended.

^{††} Requires maximum rate and/or multiple applications for effective control.

TANK MIXES WITH Goal 4F

IMPORTANT: Read and observe all label directions before using. Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.

DOSAGE

Goal 4F can be tank mixed with either glyphosate (Roundup Herbicide) or paraquat (Gramoxone Herbicide) to obtain postemergence control of annual grass weeds, volunteer grains and broadleaf weeds. Tank mix 0.5 to 1 pint (0.25 to 0.5 lb active) of Goal 4F with labeled rates of either glyphosate (Roundup) or paraquat (Gramoxone). Apply at the recommended rates and growth stages to susceptible weed species in a manner consistent with the respective labels.

OUTSIDE OF CALIFORNIA: For enhanced contact activity (burndown/suppression) to either glyphosate (Roundup) or paraquat (Gramoxone), add Goal 4F at a rate of 1.75 to 3.25 ounces (0.05 to 0.1 lb active) per acre to labeled rates of either glyphosate (Roundup) or paraquat (Gramoxone). Apply at the recommended rates and growth stages to susceptible weed species in a manner consistent with the respective labels.

If a fallow bed treatment is applied thirty days or more prior to planting and at least three significant rainfalls (0.25 inch or greater) have occurred following application, cotton or soybeans can be planted directly into the stale seedbed. If these conditions cannot be met, soil incorporation is required as directed above.

METHOD OF APPLICATION**GROUND APPLICATION**

Goal 4F should be applied in a minimum of 20 gallons of water per acre. The volume of water used should be increased as the weeds become taller and more dense. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

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AERIAL APPLICATION

Goal 4F should be applied using swirl jet or hollow cone nozzles and a spray pressure less than 40 psi to deliver a minimum spray volume of 5 gallons per acre (in California, minimum 10 GPA when applied alone or tank mixed with paraquat [Gramoxone]). Applications should be made at a height of 6 to 10 feet above the soil surface. It is suggested that the nozzles on the spray booms should not be placed any closer to the wing or rotor tips than 3/4 of the span; this will minimize the formation of spray or wing tip vortice roll. Nozzles should be spaced and positioned to produce a uniform spray pattern and to minimize or eliminate the formation of droplets 100 microns or less in diameter.

AVOID DRIFT

WHEN APPLYING TO FALLOW BEDS, EXTREME CARE MUST BE EXERCISED TO PREVENT SPRAY DRIFT WHICH COULD RESULT IN DAMAGE TO OTHER CROPS OR DESIRABLE VEGETATION. USE THE FOLLOWING GUIDELINES WHEN AERIAL APPLICATIONS ARE TO BE MADE.

1. Do not apply when the wind direction is not stable, when inversion conditions exist, or when wind velocity exceeds 10 mph.
2. When wind speeds are 5 mph or less, maintain a minimum downwind buffer zone of at least 1/2 mile from all crops and desirable vegetation, except the following:
Maintain a minimum downwind buffer zone of:
 - 150 feet from dormant treefruit/nut/vine crops and overwintering sugar beets.
 - 650 feet from garlic, jojoba, legumes, onions, pastures, small grains, seedling sugar beets, and non-targeted vegetable fallow beds.
3. When wind speeds are between 5 and 10 mph, downwind buffer zones in excess of those listed above are suggested.
4. For upwind and side borders, maintain a minimum buffer zone of 150 feet from any non-targeted vegetable fallow bed, crop, or desirable vegetation.

The use of a drift control agent may be required by local regulations. However, the drift control agent may decrease the weed control activity.

IMPORTANT

Aerial applicators must be familiar with the EPA-registered label and follow the use precautions. Spraying Goal 4F in a manner other than as recommended is done at the user's risk. Users are responsible for all loss or damage that results from such spraying. In addition, aerial applicators should follow all applicable state and local regulations and ordinances. In interpreting the label and local regulations, the most restrictive situations should apply to avoid drift hazards.

FALLOW BED (COTTON/SOYBEANS)**SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Read and observe all label directions before using. Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.
- Do not apply more than 1 pint (0.5 lb active) of Goal 4F per acre per fallow season.
- Do not apply Goal 4F within 7 days prior to planting of cotton or soybeans.

FALLOW LAND**FOR USE ONLY IN IDAHO, OREGON AND WASHINGTON****GENERAL INFORMATION**

Goal 4F is effective as a preemergence and/or postemergence herbicide when used alone or in a tank mix combination with glyphosate (Roundup) for the control of certain annual broadleaf weeds in a fallow land system. Goal 4F can be used as an effective tool to reduce weed growth prior to the establishment

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of a dry soil mulch. Use of this product is restricted to summer fallow land that will be planted back the following year to winter wheat, barley or oats.

Goal 4F USED ALONE

DOSAGE

Goal 4F should be used at 0.25 to 1 pint (0.12 to 0.5 lb active) per broadcast acre.

WEEDS CONTROLLED

Goal 4F will provide postemergence control and preemergence activity of the following broadleaf weeds when used at recommended dosages.

| | |
|-------------------|--------------------|
| FIDDLENECK, COAST | MUSTARD, TUMBLE |
| HENBIT | (JIM HILL MUSTARD) |
| LETTUCE, PRICKLY | PIGWEEED, REDROOT |
| (CHINA LETTUCE) | PURSLANE, COMMON |
| MUSTARD, BLUE | SHEPHERDSPURSE † |
| (PURPLE MUSTARD) | SOWTHISTLE, ANNUAL |

† Requires maximum rate and/or multiple applications for effective control.

TIMING AND METHOD OF APPLICATION

The most effective postemergence weed control is achieved when Goal 4F is applied to seedling weeds (less than 4 inches in height). Seedling weeds are controlled as they come in contact with the soil-applied herbicide during emergence.

Goal 4F should be applied in 20 to 40 gallons of water per acre depending upon density of emerged weeds. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

TANK MIXES WITH Goal 4F

DOSAGE

For postemergence control of annual grass weeds, Goal 4F can be tank mixed with glyphosate (Roundup Herbicide). Tank mix 0.25 to 1 pint (0.12 to 0.5 lb active) of Goal 4F with 0.75 to 1 pint (0.38 to 0.5 lb active) of glyphosate (Roundup) for each acre treated. Refer to the FALLOW AND REDUCED TILLAGE SYSTEM section on the glyphosate (Roundup) label for specific use directions and restrictions. Fill the spray tank at least one-third full of clean water and add the recommended amounts of Goal 4F and glyphosate (Roundup) while the pump and agitator are running. Complete filling of the spray tank with water. Add 1 quart of Latron AG-98 or comparable 80% active nonionic surfactant cleared for use on growing crops, per 100 gallons of spray. Maintain agitation until spraying is complete.

FALLOW LAND - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.

GARBANZO BEANS

FOR USE ONLY IN CALIFORNIA

GENERAL INFORMATION

Goal 4F is effective as a preemergence herbicide when used alone for the control of certain annual broadleaf weeds in garbanzo beans. Preemergence control is most effective when spray is applied to clean, weed-free soil surfaces. Seedling weeds are controlled as they come in contact with soil-applied herbicide during emergence. Timely cultivations will usually assist in weed control.

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Garbanzo beans are tolerant to preemergence applications of Goal 4F, however, under certain conditions, Goal 4F can cause severe but temporary crop injury. Heavy splashing rain shortly after crop emergence or wet soil conditions during early growth stages can produce leaf cupping, crinkling, stunting or defoliation of the garbanzo seedlings. When injury occurs, it is often limited to the first few leaves that develop shortly after crop plants emerge from the soil. Delays in crop development and/or maturity may result. Garbanzo beans do recover from this injury with little to no impact on yield.

Goal 4F USED ALONE

DOSAGE

Goal 4F is recommended for preemergence control of susceptible winter annual broadleaf weeds at 0.5 pint (0.25 lb active) per broadcast acre.

WEEDS CONTROLLED PREEMERGENCE

Goal 4F used alone at recommended dosages provides preemergence control of the following broadleaf weeds:

| | |
|-------------------|----------------|
| GROUNDSEL, COMMON | ROCKET, LONDON |
| MALLOW, LITTLE | SHEPHERDSPURSE |

TIMING AND METHOD OF APPLICATION

As a preemergence application, apply in a minimum of 25 gallons of water per acre. Use conventional ground spray equipment to make a single broadcast application, after planting but prior to weed and crop emergence, with flat fan or hollow cone nozzles. Spray equipment should be calibrated carefully before each use.

GARBANZO BEANS - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Do not apply more than 0.5 pint (0.25 lb active) per broadcast acre of Goal 4F in a single application.
- For application only in California.
- Do not feed bean, vines or hay.

GARLIC

GENERAL INFORMATION

Goal 4F is a selective herbicide for postemergence application to direct-seeded and transplanted garlic for early postemergence control of certain annual broadleaf and grass weeds. Initial spray application should be made only when garlic has reached the development stage specified in the DOSAGE section and the SPECIFIC USE RESTRICTIONS section of this label. On garlic transplants spray as soon after transplanting as practical. Goal 4F can cause necrotic lesions, twisting, pigtailling or stunting of the garlic plants. Injury will be more severe if applications are made immediately following or during cool, wet weather and/or if applications are made prior to the development stage of the garlic plants as specified in the DOSAGE section and the SPECIFIC USE RESTRICTIONS section of this label.

DOSAGE

SEEDED GARLIC

NORTHEASTERN STATES

CONNECTICUT, MAINE, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, RHODE ISLAND AND VERMONT

Goal 4F is recommended for postemergence control at 1 to 2 fluid ounces (0.03 to 0.06 lb active) per acre when applied postemergence to seeded garlic that have at least three (3) true leaves. Multiple treatments at the aforementioned rate may be applied. Do not apply more than 1 pint (0.5 lb active) per broadcast acre of Goal 4F as a result of multiple applications in one season.

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WESTERN STATES**ARIZONA, CALIFORNIA, COLORADO, IDAHO, NEVADA, NEW MEXICO, OREGON, TEXAS, UTAH AND WASHINGTON**

Goal 4F is recommended for postemergence control at 0.25 to 0.5 pint (0.12 to 0.25 lb active) per acre when applied postemergence to garlic that have at least two (2) true leaves. Multiple treatments at the aforementioned rates may be applied. Do not apply more than 1.25 pints (0.5 lb active) per broadcast acre of Goal 4F as a result of multiple applications in one season.

ALL OTHER STATES

Goal 4F is recommended for postemergence control at 0.25 pints (0.12 lb active) per acre when applied postemergence to garlic that have at least two (2) true leaves. Multiple treatments at the aforementioned rates may be applied. Do not apply more than 1 pint (0.5 lb active) per broadcast acre of Goal 4F as a result of multiple applications in one season.

TRANSPLANTED GARLIC

Transplanted garlic is most tolerant of a postemergence application immediately after transplanting. For all states except the Northeastern states listed under the DOSAGE - SEEDED GARLIC section, an application of up to 1 pint (0.5 lb active) per acre within two days after transplanting may be made. If less than 1.25 pints per acre is applied, a second application can be made two weeks or more after transplanting. Do not exceed the maximum use rate of 1 pint (0.5 lb active) per broadcast acre of Goal 4F as a result of multiple applications in one season.

For transplanted garlic in the Northeastern states, apply the same rates listed in the DOSAGE - SEEDED section within two days after transplanting.

Dosages listed are for broadcast application. For banded application, the amount of Goal 4F used per acre should be reduced according to the following formula:

$$\frac{\text{Band Width (in inches)}}{\text{Row Width (in inches)}} \times \text{Rate per Broadcast Acre} = \text{Amount Needed per Acre for Banded Application}$$

WEEDS CONTROLLED

Goal 4F will provide postemergence control of the following weeds when applied at the recommended dosage and leaf stage (2 to 4 leaves).

| | |
|--------------------------|--------------------|
| CANARYGRASS (ANNUAL) | PUNCTUREVINE |
| EVENINGPRIMROSE, CUTLEAF | PURSLANE, COMMON † |
| GROUNDSEL, COMMON | ROCKET, LONDON |
| MALLOW, LITTLE (MALVA) | SAGE, LANCELEAF |
| NIGHTSHADE, BLACK | SHEPHERDSPURSE † |
| PIGWEEED, PROSTRATE † | SOWTHISTLE, ANNUAL |
| PIGWEEED, REDROOT † | |

† Specific weeds controlled at rates recommended for use in Northeastern States (see DOSAGE section).

TIMING AND METHOD OF APPLICATION

For best postemergence control of susceptible weeds, apply when the weeds are in the 2 to 4-leaf stage. Application of Goal 4F after the weeds exceed the maximum leaf stage may result in reduced weed control. More than one postemergence application may be necessary to control subsequent weed flushes.

Goal 4F should be thoroughly mixed with clean water at recommended concentrations, and applied in a minimum of 40 gallons of water per acre. Use conventional ground spray equipment with flat fan spray nozzles at 20 to 40 psi. Accurately calibrate spray equipment prior to each use. Avoid drift to all other crops and non-target areas. Thoroughly flush the spray equipment (tank, hose, pump, and boom) with water before and after each use. Residual Goal 4F remaining in spray equipment may damage other crops.

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GARLIC - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- In all states except Northeastern states, do not start spraying until the garlic (direct seeded) have two (2) fully developed true leaves. In the Northeastern states (Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, Vermont), do not start spraying until the garlic (direct seeded) have three (3) fully developed true leaves. Applications made prior to the recommended garlic development stage may result in serious injury and is not recommended.
- Do not apply more than a total of 1 pint (0.5 lb active) per acre of Goal 4F during one use season.
- Do not apply within 60 days of harvest.
- Use only on dry bulb garlic.
- Do not apply to garlic grown for seed.
- Do not mix Goal 4F with oils, surfactants, liquid fertilizers or pesticides except as specified on other approved Dow AgroSciences supplemental labeling.
- Do not apply Goal 4F preemergence to direct-seeded garlic.
- Do not apply to garlic plants that are under stress due to drought, flooding, excessive fertilizer or soil salts, storage conditions, wind injury, hail, frost damage, injury from previously applied pesticides, or injury due to insects, nematodes or diseases.

GUAVA**FOR USE ONLY IN HAWAII****GENERAL INFORMATION**

Goal 4F is effective as a preemergence herbicide when used alone for the control of certain annual broadleaf weeds in bearing and nonbearing guava plantings.

For postemergence control of certain grass and broadleaf weeds, a tank mixture of either paraquat (Gramoxone) or glyphosate (Roundup) with Goal 4F can be applied to seedling weeds.

Check individual labels to determine suitability and use rates for crop.

Goal 4F USED ALONE**DOSAGE**

Goal 4F is recommended for postemergence control of susceptible weeds at 1 to 4 pints (0.5 to 2.0 lb active) per broadcast acre.

For preemergence control of susceptible weeds, use 2.5 to 4 pints (1.25 to 2.0 lb active) of Goal 4F per broadcast acre.

WEEDS CONTROLLED POSTEMERGENCE

Apply 1 to 4 pints (0.5 to 2.0 lb active) of Goal 4F per broadcast acre. Applications to weeds beyond the 4-leaf stage may result in partial control.

PURSLANE, COMMON SPURGE, GARDEN

WEEDS CONTROLLED PREEMERGENCE

Apply 2.5 to 4 pints (1.25 to 2.0 lb active) of Goal 4F per broadcast acre.

AGERATUM PURSLANE, COMMON
 BUTTONWEED SPURGE, GARDEN
 CROTALARIA

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TIMING AND METHOD OF APPLICATION

Treatments should be applied only to healthy guava trees. Care must be taken to prevent direct spray or drift from contacting green stems, fruit or foliage, as injury may result. Applications should be made only after new foliage has hardened off, or injury may result.

As a preemergence or postemergence treatment to weeds, apply in a minimum of 15 gallons of water per acre. Use higher volumes to assure adequate coverage in high densities of emerged weeds or heavy trash. Goal 4F should be directed to the soil and the base of the tree. Use of a low-pressure sprayer equipped with a breakaway boom and flat fan or off-center (OC) nozzles is recommended. An off-center nozzle positioned at the end of the boom may be desired. Spray shields are suggested for use in young trees.

TANK MIXES WITH Goal 4F

IMPORTANT: Read and observe all label directions before using. Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.

DOSAGE

For postemergence control of susceptible grass and broadleaf weeds in guava plantings, a tank mixture of Goal 4F with either paraquat (Gramoxone Herbicide) or glyphosate (Roundup Herbicide) can be used. Apply at recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

WEEDS CONTROLLED POSTEMERGENCE

In addition to the weeds controlled by Goal 4F used alone, control of susceptible weeds listed on the respective labels for the following products is also obtained:

paraquat (Gramoxone)
glyphosate (Roundup)

GUAVA - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Do not apply more than 4 pints (2.0 lb active) per broadcast acre of Goal 4F in a single application or more than 8 pints (4.0 lbs active) per season.
- Do not apply Goal 4F within 1 day of harvest.
- Direct spray toward the base of the trees. Avoid direct plant contact.
- Goal 4F or any of the combinations recommended on this label should be applied to only healthy growing trees.
- Goal 4F applications should be made only after new foliage has hardened off.

HORSERADISH**GENERAL INFORMATION**

Goal 4F is a selective herbicide recommended for preemergence control of certain broadleaf weeds. Applications must be made after the horseradish roots have been planted and prior to plant emergence. (Emerged plants that receive direct or indirect (drift) spray contact will be injured.) It may be desirable to cultivate immediately prior to application to remove germinated weeds.

Do not use Goal 4F on horseradish plantings that are weak, or under stress due to temperature, disease, fertilizer, nematodes, insects, pesticides, drought or excessive moisture.

DOSAGE

Apply Goal 4F at a rate of 1 pint (0.5 lb active) per broadcast acre as a preemergence application to horseradish.

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WEEDS CONTROLLED

Goal 4F will provide preemergence control of the following weeds when used at the recommended dosage:

| | |
|-----------------------|-------------------------|
| LAMBSQUARTERS, COMMON | SHEPHERDSPURSE |
| PIGWEEED, REDROOT | SMARTWEED, PENNSYLVANIA |
| PURSLANE, COMMON | |

TIMING AND METHOD OF APPLICATION

Goal 4F should be thoroughly mixed with clean water at recommended concentrations, and applied in a minimum of 20 gallons of water per acre. Use conventional ground spray equipment with flat fan nozzles at 20 to 40 psi. Accurately calibrate spray equipment prior to each use.

HORSERADISH - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Do not apply more than 1 pint (0.5 lb active) of Goal 4F per broadcast acre as a single application.

JOJOBA**GENERAL INFORMATION**

Goal 4F is a selective herbicide for postemergence and preemergence control of certain broadleaf weeds in jojoba. Goal 4F should be post-directed to the base of the jojoba plant to avoid possible phytotoxicity to the jojoba foliage. Over-the-top applications may exhibit burning, crinkling or bronzing of jojoba foliage, particularly to the youngest leaves, flowers, or buds present at the time of application.

DOSAGE

Goal 4F is recommended for postemergence and preemergence control of susceptible seedling weeds (up to 8 inches in height) at 4 pints (2.0 lb active) per broadcast acre. For optimum residual control, apply during the fall or winter.

For early postemergence control of susceptible seedling weeds (less than 8 inches in height) apply Goal 4F at a rate of 2 pints (1.0 lb active) per broadcast acre.

WEEDS CONTROLLED POSTEMERGENCE

| | |
|------------------------------------|--------------------------------|
| FIDDLENECK, COAST | MINERSLETTUCE |
| FILAREE, BROADLEAF ^{††} | NETTLE, BURNING |
| FILAREE, REDSTEM ^{††} | PIGWEEED, REDROOT [†] |
| FILAREE, WHITESTEM ^{††} | REDMAIDS |
| GROUNDSEL, COMMON [†] | SHEPHERDSPURSE |
| HENBIT | SOWTHISTLE, ANNUAL |
| MALLOW, LITTLE (MALVA, CHEESEWEED) | |

WEEDS CONTROLLED PREEMERGENCE

| | |
|-----------------------|------------------------------------|
| BURCLOVER | LETTUCE, PRICKLY |
| FIDDLENECK, COAST | MALLOW, LITTLE (MALVA, CHEESEWEED) |
| FILAREE, BROADLEAF | PIGWEEED, REDROOT |
| FILAREE, REDSTEM | PURSLANE, COMMON |
| FILAREE, WHITESTEM | REDMAIDS |
| GROUNDSEL, COMMON | ROCKET, LONDON |
| HENBIT | SHEPHERDSPURSE |
| KNOTWEED, PROSTRATE | SOWTHISTLE, ANNUAL |
| LAMBSQUARTERS, COMMON | |

[†] Highest rate may be required for acceptable postemergence control.

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†† Goal 4F at the 4-pint rate (2.0 lbs active) will provide control of filaree not exceeding the 4-inch stage. Applications to filaree beyond the 4-inch stage may result in partial control.

TIMING AND METHOD OF APPLICATION

Apply the first application of Goal 4F after jojoba plants have grown to a minimum 6-inch height or greater. Additional applications should be applied as needed for post and preemergence weed control. Weed height should not exceed 12 inches or unsatisfactory weed control may result.

Goal 4F should be applied in a minimum spray volume of 40 gallons of water per acre depending upon density of emerged weeds. Spray volume should be increased as weed height and density increase. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

JOJOBA - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Avoid direct spray or drift contact of Goal 4F with jojoba flowers or buds as severe injury may result.
- Do not apply more than 4 pints (2.0 lb active) per broadcast care in a single application.

MINT

SPEARMINT/PEPPERMINT

FOR USE ONLY IN CALIFORNIA, IDAHO, MONTANA, NEVADA, OREGON, SOUTH DAKOTA, UTAH AND WASHINGTON

GENERAL INFORMATION

Goal 4F is a selective herbicide for the control of certain annual grasses and broadleaf weeds in spearmint and peppermint grown in California, Idaho, Montana, Nevada, Oregon, South Dakota, Utah and Washington. Applications should only be made to spearmint and peppermint that are dormant.

METHOD OF APPLICATION

Application must be made prior to new spring growth or severe crop injury may result. Goal 4F should be thoroughly mixed with clean water at recommended concentration and applied at 20 to 40 psi in 20 to 40 gallons of water per acre.

WEEDS CONTROLLED

When Goal 4F is applied as a dormant application at recommended dosages in spearmint and peppermint, the following annual weeds are controlled:

| | |
|--------------------------------|--------------------------------|
| BEDSTRAW, CATCHWEED | NIGHTSHADE, HAIRY |
| BLUEGRASS, ANNUAL [†] | OATS, WILD [†] |
| FLIXWEED | ORACH, RED |
| GROUNDSEL, COMMON | PEPPERWEED, YELLOWFLOWER |
| LAMBSQUARTERS, COMMON | PIGWEEED, REDROOT |
| LETTUCE, PRICKLY | RYEGRASS, ITALIAN [†] |
| (CHINA LETTUCE) | SHEPHERDSPURSE |
| MUSTARD, BLUE | SOWTHISTLE, ANNUAL |
| (PURPLE MUSTARD) | TANSYMUSTARD |
| MUSTARD, TUMBLE | THISTLE, RUSSIAN |
| (JIM HILL MUSTARD) | |

[†] Control of annual grasses is best obtained when Goal 4F is applied prior to emergence. Postemergence control of winter annual grasses is generally unsatisfactory if applications are made after the 1 to 2-leaf stage.

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WESTERN OREGON**PEPPERMINT (WILLAMETTE VALLEY)**

Apply 1 to 1.5 pints (0.5 to 0.75 lb active) of Goal 4F from November through February to dormant peppermint only. Treatments in January or February generally provide better residual preemergence control of annual broadleaf weeds. Full season weed control should not be expected from this treatment.

- **DO NOT APPLY Goal 4F IN THE WILLAMETTE VALLEY TO MINT THAT HAS BEEN PLOWED.**

OREGON AND WASHINGTON (EAST OF CASCADES)

CALIFORNIA, MONTANA, IDAHO, NEVADA, SOUTH DAKOTA AND UTAH.

SPEARMINT AND PEPPERMINT

Apply 2 to 4 pints (1 to 2 lb active) of Goal 4F from December through March to dormant mint only. Later winter applications will provide maximum activity on summer weeds. Summer grass control may be inconsistent. For best results, fall-plowed fields should be harrowed to provide a smooth surface prior to application. Plowed fields should not be harrowed after Goal 4F has been applied, as soil disturbance will decrease the herbicidal effectiveness. In furrow-irrigated fields, corrugating must be done prior to application. Corrugating after application can cover treated rows with untreated soil, resulting in poor weed control.

**MINT (SPEARMINT AND PEPPERMINT)
SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Do not apply more than one application of Goal 4F per season.
- Apply Goal 4F only to healthy spearmint and peppermint. Do not apply to spearmint or peppermint that has been weakened by disease, drought, flooding, excessive fertilizer, soil salts, previously applied pesticides, nematodes, insects, or winter injury, as severe injury may result.

ONIONS**GENERAL INFORMATION**

Goal 4F is a selective herbicide for postemergence application to direct-seeded and transplanted onions for early postemergence control of certain annual broadleaf and grass weeds. Initial spray application should be made only when the onions have reached the development stage specified in the DOSAGE section and the SPECIFIC USE RESTRICTIONS section of this label. On onion transplants, spray as soon before or after transplanting as practical. Goal 4F can cause necrotic lesions, twisting, pigtailling or stunting of the onion plants. Injury will be more severe if applications are made immediately following or during cool, wet weather and/or if applications are made prior to the development stage of the onion plants as specified in the DOSAGE section and the SPECIFIC USE RESTRICTIONS section of this label.

DOSAGE**SEEDED ONIONS****NORTHEASTERN STATES**

**CONNECTICUT, MAINE, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK,
RHODE ISLAND AND VERMONT**

Goal 4F is recommended for postemergence control at 1 to 2 fluid ounces (0.03 to 0.06 lb active) per acre when applied postemergence to seeded onions that have *at least three (3) true leaves*. Multiple treatments at the aforementioned rate may be applied. Do not apply more than 1 pint (0.5 lb active) per broadcast acre of Goal 4F as a result of multiple applications in one season.

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WESTERN STATES

ARIZONA, CALIFORNIA, COLORADO, IDAHO, NEVADA, NEW MEXICO, OREGON, TEXAS, UTAH AND WASHINGTON

Goal 4F is recommended for postemergence control at 0.25 to 0.5 pint (0.12 to 0.25 lb active) per acre when applied postemergence to onions that have *at least two (2) true leaves*. Multiple treatments at the aforementioned rates may be applied. Do not apply more than 1 pint (0.5 lb active) per broadcast acre of Goal 4F as a result of multiple applications in one season.

ALL OTHER STATES

Goal 4F is recommended for postemergence control at 0.25 pints (0.12 lb active) per acre when applied postemergence to onions that have **at least two (2) true leaves**. Multiple treatments at the aforementioned rates may be applied. Do not apply more than 1 pint (0.5 lb active) per broadcast acre of Goal 4F as a result of multiple applications in one season.

TRANSPLANTED ONIONS

POST TRANSPLANT: Transplanted onions are most tolerant of a postemergence application immediately after transplanting. For all states except the Northeastern states listed under the DOSAGE - SEEDED ONIONS section, an application of up to 1 pint (0.5 lb active) per acre within two days after transplanting may be made. If less than 1 pint per acre is applied, a second application can be made two weeks or more after transplanting. Do not exceed the maximum use rate of 1 pint (0.5 lb active) per broadcast acre of Goal 4F as a result of multiple applications in one season.

For transplanted onions in the Northeastern states, apply the same rates listed in the DOSAGE - SEEDED ONIONS section within two days after transplanting.

PRE-TRANSPLANT: (Not for use in Northeastern or Western states, except as specifically directed on other approved supplemental labeling.) Goal 4F is recommended for use as a pre-transplant application at 0.5 to 1 pint (0.25 to 0.5 lb active) per broadcast acre. Applications must be made after completion of soil preparation, but prior to transplanting of onion plants. Transplanting should be completed with minimal soil disturbance. Treated soil surfaces should be left undisturbed after transplanting to obtain greatest benefit of Goal 4F on susceptible annual broadleaf weeds during the time period for which weed control is desired. However, timely cultivations after weed emergence will assist in weed control. If less than 1 pint per acre is applied as a pre-transplant treatment, postemergence applications can be made as instructed in the DOSAGE - SEEDED ONIONS section of this label. Do not exceed the maximum use rate of 1 pint (0.5 lb active) per broadcast acre of Goal 4F as a result of multiple applications in one season.

Dosages listed are for broadcast application. For banded application, the amount of Goal 4F used per acre should be reduced according to the following formula:

$$\frac{\text{Band Width (in inches)}}{\text{Row Width (in inches)}} \times \text{Rate per Broadcast Acre} = \text{Amount Needed per Acre for Banded Application}$$

WEEDS CONTROLLED

Goal 4F will provide postemergence control of the following weeds when applied at the recommended dosage and leaf stage (1 to 4 leaves):

- | | |
|---|----------------------------------|
| CANARYGRASS (ANNUAL) | PUNCTUREVINE |
| EVENINGPRIMROSE, CUTLEAF ^(a) | PURSLANE, COMMON ^(ab) |
| GROUNDSEL, COMMON | ROCKET, LONDON |
| MALLOW, LITTLE (MALVA) | SAGE, LANCELEAF |
| NIGHTSHADE, BLACK | SHEPHERDSPURSE ^(b) |
| PIGWEEED, PROSTRATE ^(b) | SOWTHISTLE, ANNUAL |
| PIGWEEED, REDROOT ^(ab) | |

^(a)Weeds controlled when applied as a pre-transplant application. In addition, Goal 4F at the rate of 0.5 to 1 pint per acre will provide control/suppression of carpetweed, Pennsylvania smartweed, galinsoga,

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common lambsquarters, and wild mustard. Applications of Goal 4F to muck soils may result in partial control or suppression of the weeds listed.

(b) Specific weeds controlled at rates recommended for use in northeastern states (see DOSAGE section).

TIMING AND METHOD OF APPLICATION

For best postemergence control of susceptible weeds, apply when the weeds are in the 2-to 4-leaf stage. Application of Goal 4F after the weeds exceed the maximum leaf stage may result in reduced weed control. More than one postemergence application may be necessary to control subsequent weed flushes.

Goal 4F should be thoroughly mixed with clean water at recommended concentrations, and applied in a minimum of 40 gallons of water per acre. Use conventional ground spray equipment with flat fan spray nozzles at 20 to 40 psi. Accurately calibrate spray equipment prior to each use. Avoid drift to all other crops and non-target areas. Thoroughly flush the spray equipment (tank, hose, pump, and boom) with water before and after each use. Residual Goal 4F remaining in spray equipment may damage other crops.

ONIONS - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- In all states, except Northeastern states, do not start spraying until the onions (direct-seeded) *have two (2) fully developed true leaves*. In the Northeastern states (Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, Vermont), do not start spraying until the onions (direct-seeded) *have three (3) fully developed true leaves*. Applications made prior to the recommended onion development stage may result in serious injury and is not recommended.
- Do not apply more than a total of 1 pint (0.5 lb active) per acre of Goal 4F during one use season.
- Do not apply within 45 days of harvest.
- Use only on dry bulb onions.
- Do not apply to onions grown for seed, except as specified on other approved supplemental labeling.
- Tank mixtures of Goal 4F with oils, surfactants, liquid fertilizers or other pesticides may result in enhanced crop response/injury and are the responsibility of the user.
- Do not apply Goal 4F preemergence to direct-seeded onions.
- Do not apply to onion plants that are under stress due to drought, flooding, excessive fertilizer or soil salts, storage conditions, wind injury, hail, frost damage, injury from previously applied pesticides, or injury due to insects, nematodes or diseases.

ONIONS GROWN FOR SEED

GENERAL INFORMATION

Goal 4F is a selective herbicide for postemergence application to onions grown for seed, for early postemergence control of certain annual broadleaf and grass weeds. Initial spray application should be made only when the onions have reached the development stage specified in the DOSAGE section and the SPECIFIC USE RESTRICTIONS section of this label. Goal 4F can cause necrotic lesions, twisting, pigtailling or stunting of the onion plants. Injury will be more severe if applications are made immediately following or during cool, wet weather and/or if applications are made prior to the development stage of the onion plants as specified in the DOSAGE section and the SPECIFIC USE RESTRICTIONS section of this label.

NOTICE: Some varieties or inbred lines of onions may be more susceptible to Goal 4F. Care should be taken to insure that the particular onion variety or line being grown is tolerant to Goal 4F. It is suggested that all onion varieties or lines be tested in limited areas to ensure an adequate level of crop tolerance prior to an application for postemergence weed control.

WEEDS CONTROLLED

Goal 4F will provide postemergence control of the following weeds when applied at the recommended dosage and leaf stage (1 to 4 leaves):

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| | |
|----------------------------------|-------------------------------|
| CANARYGRASS (ANNUAL) | PUNCTUREVINE |
| EVENINGPRIMROSE, CUTLEAF | PURSLANE, COMMON [†] |
| GROUNDSEL, COMMON | ROCKET, LONDON |
| MALLOW, LITTLE (MALVA) | SAGE, LANCELEAF |
| NIGHTSHADE, BLACK | SHEPHERDSPURSE |
| PIGWEEED, PROSTRATE [†] | SOWTHISTLE, ANNUAL |
| PIGWEEED, REDROOT [†] | |

[†] Specific weeds controlled at rates recommended for use in Northeastern states (see DOSAGE section).

DOSAGE

NORTHEASTERN STATES

CONNECTICUT, MAINE, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, RHODE ISLAND AND VERMONT

Goal 4F is recommended for postemergence control at a maximum use rate of 1 fluid ounce (0.03 lb active) per acre when applied postemergence to seeded onions that have **at least four (4) true leaves**. Multiple treatments at the aforementioned rate may be applied. Do not apply more than 1 pint (0.5 lb active) per broadcast acre of Goal 4F as a result of multiple applications in one season.

ALL OTHER STATES

Goal 4F is recommended for postemergence control at a maximum use rate of 0.25 pint (0.125 lb active) per acre when applied postemergence to onions that have *at least three (3) true leaves*. Multiple treatments at the aforementioned rates may be applied. Do not apply more than 1 pint (0.5 lb active) per broadcast acre of Goal 4F in one season.

TIMING AND METHOD OF APPLICATION

For best postemergence control of susceptible weeds, apply when the weeds are in the 1 to 4-leaf stage. Application of Goal 4F after the weeds exceed the maximum leaf stage may result in reduced weed control. More than one postemergence application may be necessary to control subsequent weed flushes.

Goal 4F should be thoroughly mixed with clean water at recommended concentrations, and applied in a minimum of 40 gallons of water per acre. Use conventional ground spray equipment with flat fan spray nozzles, at 20 to 40 psi. Do not exceed 40 psi. Accurately calibrate spray equipment prior to each use. Thoroughly flush the spray equipment (tank, hose, pump, and boom) with water before and after each use. Residual Goal 4F remaining in spray equipment may damage other crops.

DO NOT APPLY WHEN WEATHER CONDITIONS FAVOR DRIFT. AVOID DRIFT TO ALL NON-TARGET AREAS. Goal 4F IS PHYTOTOXIC TO PLANT FOLIAGE.

ONIONS GROWN FOR SEED

SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- In all states, do not start spraying until the onions have reached the minimum leaf stage specified in the DOSAGE section of this label. Applications made prior to recommended onion development stage may result in serious injury and is not recommended.
- Do not apply more than a total of 1 pint (0.5 lb active) per acre of Goal 4F during one use season.
- Do not apply within 60 days of harvest.
- Do not mix Goal 4F with oils, surfactants, liquid fertilizers or other pesticides except as specified on other approved Dow AgroSciences supplemental labeling.
- Do not apply to onion plants that are under stress due to drought, flooding, excessive fertilizer or soil salts, wind injury, hail, frost damage, injury from previously applied pesticides, or injury due to insects or diseases.

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PAPAYA
FOR USE ONLY IN HAWAII**GENERAL INFORMATION**

Goal 4F is a selective herbicide for use as a post-directed application for broadleaf weed control in papaya. Occasionally, after the use of Goal 4F, a spotting, crinkling or flecking may appear on the leaves of the papaya. Leaves or green stalks that receive direct or indirect (drift) spray contact will be injured. Do not use Goal 4F on papaya plantings that are weak, or under stress due to temperature, disease, fertilizer, nematodes, insects, pesticides, drought or excessive moisture.

DOSAGE AND TIMING

Apply Goal 4F at a rate of 2 pints (1.0 lb active) per broadcast acre as a directed spray to the orchard floor. The initial application should occur no earlier than 4 months after transplanting or 6 months after direct seeding, and after the papaya has reached a minimum height of 4 feet. Applications may be repeated at approximate 4-month intervals.

Goal 4F provides effective control of susceptible weed seedlings up to the 4-leaf stage. Do not apply more than 2.0 pints (1.0 lb active) of Goal 4F per broadcast acre in a single application, or more than 6.0 pints (3.0 lb active) per broadcast acre per year as a result of multiple applications.

WEEDS CONTROLLED

Goal 4F will provide preemergence and postemergence control of the following weeds when used at the recommended dosage. Application to weeds beyond the 4-leaf stage may result in partial control:

AMARANTH, SPINY SPURGE, GARDEN
PURSLANE, COMMON

METHOD OF APPLICATION

Goal 4F should be thoroughly mixed with clean water at recommended concentrations, and applied in a minimum of 15 gallons of water per broadcast acre. Accurately calibrate spray equipment prior to each use.

Accurate, uniform placement of Goal 4F is essential for effective weed control and to minimize crop injury. Goal 4F must be applied as a directed spray to the orchard floor beneath the papaya plants. Do not allow the herbicide solution, spray, drift or mist to contact green bark, stems, fruit or foliage as injury may result. Goal 4F must be applied using rigid precision ground sprayer equipment.

PAPAYA - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Do not allow herbicide solution, spray, drift or mist to contact green bark, stems, fruit or foliage as injury may result.
- Do not apply more than 2.0 pints (1.0 lb active) of Goal 4F per broadcast acre in a single directed spray or more than 6 pints (3.0 lb active) per broadcast acre per year as a result of multiple applications.
- Do not apply Goal 4F within 1 day of harvest.
- For use only in papaya grown in Hawaii.

SOYBEANS**NOT FOR USE IN CALIFORNIA****GENERAL INFORMATION**

Goal 4F is effective as a preemergence and postemergence (post-directed) herbicide for the control of broadleaf weeds in soybeans. Applications can be made early preplant in conservation tillage soybeans, preemergence in no-till (double-crop) and conventional soybeans, or post-directed in conventional till

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soybeans. Seedling weeds are controlled as they come in contact with the herbicide either during emergence or through a post-directed application. Follow specific use directions and restrictions for recommended use and timing of applications.

Soybeans are tolerant to preemergence and post-directed applications of recommended dosages of Goal 4F; however, under certain conditions, Goal 4F can cause temporary injury. Heavy splashing rain shortly after crop emergence or cold, wet soil conditions during early growth stages can produce leaf cupping and crinkling. When injury occurs, it is generally limited to the first few leaves that develop shortly after crop plants emerge from the soil. Soybeans recover from this injury and yields are not adversely affected. Soybean leaves that are accidentally sprayed during a post-directed application will exhibit necrotic spotting and injury to the soybean plant. Therefore, care must be exercised to avoid spray contact with the soybean leaves.

DOSAGE AND TIMING

CONSERVATION TILLAGE

SOYBEANS EARLY PREPLANT

Goal 4F is effective for preemergence and postemergence control of susceptible broadleaf weeds when surface applied at 1.25 to 1.5 pints (0.38 to 0.75 lb active) per broadcast acre to the stale seedbed prior to the planting of conservation tillage soybeans. It is suggested that applications be made approximately 14 days prior to planting. The higher rate of 1 to 1.5 pints (0.5 to 0.75 lbs active) will assist in early season annual grass control. However, Goal 4F must not be a basic portion of the grass herbicide program. A planned program utilizing herbicides registered for early preplant, preemergence or postemergence grass control in soybeans is recommended.

The use of ridge or slot planters or other planting equipment that results in minimal soil disturbance is recommended. Soil surfaces should not be disturbed as the herbicidal effectiveness of Goal 4F may be decreased. Seedling weeds are controlled as they come in contact with the soil-applied herbicide during emergence. Timely cultivations will usually assist in weed control.

NO-TILL (DOUBLE-CROP) SOYBEANS

PREEMERGENCE

Goal 4F is effective for preemergence and postemergence control of susceptible broadleaf weeds when applied at 0.25 to 1 pint (0.12 to 0.5 lb active) per broadcast acre.

For postemergence control of certain grass and broadleaf weeds a tank mix of either paraquat (Gramoxone) or glyphosate (Roundup) with Goal 4F can be used.

For residual grass control in no-till soybeans, a tank mixture of Bronco® Herbicide or Lasso Herbicide with Goal 4F or combinations of Goal 4F plus paraquat (Gramoxone Herbicide) or glyphosate (Roundup Herbicide) can be used. Follow specific use directions and restrictions for these combination tank mixes.

Application should be made within one day after planting. Later applications may result in severe crop injury and are not recommended.

WEEDS CONTROLLED PREEMERGENCE

Goal 4F used alone, at recommended dosages, provides preemergence control of the following broadleaf weeds:

GROUNDCHERRY, CUTLEAF †
JIMSONWEED
LAMBSQUARTERS, COMMON
NIGHTSHADE, AMERICAN BLACK †
NIGHTSHADE, BLACK †

POINSETTIA, WILD
SHEPHERDSPURSE
SIDA, PRICKLY (TEAWEED)
SMARTWEED, PENNSYLVANIA
SOWTHISTLE, COMMON †

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PIGWEEED, REDROOT

VELVETLEAF

† Suppression of this weed occurs when Goal 4F is applied at the reduced rate recommended for the Goal 4F/metribuzin tank mix combination.

**WEEDS CONTROLLED POSTEMERGENCE
(POST-DIRECTED APPLICATION)**

When Goal 4F is applied as a post-direct application at the recommended weed stage and dosage in soybeans, the following weeds are controlled:

- | | |
|----------------------------|--------------------------------------|
| COCKLEBUR, COMMON | NIGHTSHADE, HAIRY |
| CROTON, TROPIC | PIGWEEED, REDROOT |
| GROUNDCHERRY, CUTLEAF | POINSETTIA, WILD [†] |
| GROUNDCHERRY, WRIGHT | PURSLANE, COMMON |
| JIMSONWEED | SESBANIA, HEMP |
| LAMBSQUARTERS, COMMON | SHEPHERDSPURSE [†] |
| MORNINGGLORY, ANNUAL | SICKLEPOD ^{††} |
| (UP TO 6 LEAF) | SIDA, PRICKLY (TEAWEED) [†] |
| MUSTARD, WILD | SMARTWEED, PENNSYLVANIA |
| NIGHTSHADE, AMERICAN BLACK | VELVETLEAF |
| NIGHTSHADE, BLACK | |

† Multiple applications may be required for acceptable control.

†† Post-direct applications of Goal 4F will kill or suppress seedlings not exceeding the one true leaf stage.

Two pints of Latron AG-98, or comparable 80% active nonionic surfactant cleared for application to growing crops, per each 100 gallons of spray solution are suggested in all tank mixtures containing Goal 4F when postemergence weed control is desired.

TANK MIXES WITH Goal 4F

Goal 4F when applied at 0.3 to 0.4 pint (0.16 to 0.2 lb active) per acre as a tank mix combination with metribuzin (Sencor[®] DF or Lexone[®] DF) at 0.33 lb product (0.25 lb active) per acre is effective for preemergence control of susceptible broadleaf weeds. Do not apply this tank mix to sandy soils or coarse soils (sandy loam or loamy sand) containing less than 2% organic matter. Do not use on soils with less than 1/2% organic matter, or on alkaline soils with a pH above 7.4 as crop injury may occur. Application should be made within one day following planting. Later applications may result in severe crop injury and are not recommended. The Goal 4F/metribuzin herbicide tank mix may be applied as a preemergence application following a preplant incorporated grass herbicide treatment or as a three-way tank mix in a preemergence application with Lasso Herbicide.

IMPORTANT: Read and observe all label directions before using. Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.

DOSAGE

Refer to the following tables for labeled use rates.

**NO-TILL (DOUBLE-CROP) SOYBEANS
PREEMERGENCE**

| RATE OF PRODUCT PER BROADCAST ACRE (PINTS PER ACRE) | | | | | |
|---|--------------|-----------------------|-------------------------|-------------------------|---------------------|
| Soil Texture | Goal 4F | Lasso 4E [†] | paraquat (Gramoxone) | glyphosate (Roundup) | Bronco [†] |
| Coarse | 0.25 to 0.75 | 4.0 to 5.0 | 1.0 to 2.0 | 2.0 to 3.0 | 6.5 to 10.0 |
| Medium | 0.25 to 1.00 | 5.0 to 6.0 | 1.0 to 2.0 | 2.0 to 3.0 | 8.0 to 10.0 |
| Fine | 0.25 to 1.00 | 5.0 to 6.0 | 1.0 to 2.0 | 2.0 to 3.0 | 8.0 to 10.0 |
| Muck or Peat | †† | †† | †† | †† | †† |

[†] Use the higher rate of Bronco or Lasso herbicides on soils containing more than 3% organic matter.

†† Do not use.

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CONVENTIONAL TILLED SOYBEANS PREEMERGENCE

Goal 4F is effective for preemergence control of susceptible broadleaf weeds when applied at 0.5 to 2.5 pints (0.25 to 0.38 lb active) per broadcast acre. Application should be made within one day of planting. Later applications may result in severe crop injury and are not recommended. The higher rate (0.38 lb active) will assist in early season annual grass control. However, Goal 4F must not be a basic portion of the grass herbicide program. Goal 4F may be applied alone as a preemergence application following a preplant incorporated grass herbicide treatment or as a tank mix in a preemergence application with Lasso Herbicide.

CONVENTIONAL TILLED SOYBEANS PREEMERGENCE

| RATE OF PRODUCT PER BROADCAST ACRE (PINTS PER ACRE) | | | |
|---|-------------|-----------------------|-----------------------------|
| Soil Texture | Goal 4F | Lasso 4E [†] | (lb PER ACRE) |
| | | | Metribuzin DF ^{††} |
| Coarse | 0.3 to 0.75 | 3.0 to 4.0 | 0.33 |
| Medium | 0.3 to 0.75 | 4.0 to 6.0 | 0.33 |
| Fine | 0.3 to 0.75 | 4.0 to 6.0 | 0.33 |
| Muck or Peat | ††† | ††† | ††† |

[†] Use the higher rate of Bronco Lasso on soils containing more than 3% organic matter.

^{††} Sencor DF or Lexone DF

^{†††} Do not use.

WEEDS CONTROLLED PREEMERGENCE

When Goal 4F is tank mixed with Bronco Herbicide or Lasso Herbicide and applied preemergence, in addition to the weeds controlled preemergence by Goal 4F alone, control of the following weeds is also obtained:

| | |
|------------------|------------------------|
| BARNYARDGRASS | JOHNSONGRASS, SEEDLING |
| CRABGRASS, LARGE | PANICUM, FALL |
| FOXTAIL, GIANT | RAGWEED, COMMON |
| FOXTAIL, YELLOW | SIGNALGRASS, BROADLEAF |

WEEDS CONTROLLED POSTEMERGENCE

When Goal 4F is tank mixed with Bronco, paraquat (Gramoxone) or glyphosate (Roundup) and applied postemergence, in addition to the weeds controlled postemergence by Goal 4F alone, control of the following weeds is also obtained:

| | |
|-------------------|-----------------------|
| BLUEGRASS, ANNUAL | FOXTAIL, YELLOW |
| CRABGRASS, LARGE | LAMBSQUARTERS, COMMON |
| FOXTAIL, GIANT | RAGWEED, COMMON |
| FOXTAIL, GREEN | SANDBUR, FIELD |

TIMING AND METHOD OF APPLICATION

As a preemergence treatment, apply in 20 to 60 gallons of water per acre. If Bronco or glyphosate (Roundup) are included in the tank mix, apply in 20 to 40 gallons of water per acre. To insure complete coverage, spray volume should be increased as the density of emerged weeds, crop residue or stubble increases. Use conventional spray equipment with flat fan or flood jet nozzles. Spray equipment should be calibrated carefully before each use.

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POST-DIRECTED SPRAY**Goal 4F USED ALONE****DOSAGE**

Goal 4F is recommended as a post-directed application at 0.5 pint (0.25 lb active) per acre. Optimum control is achieved when Goal 4F is applied to seedling weeds not exceeding 4 true leaves. See MIXING DIRECTIONS for surfactant recommendations. Weeds should be in the seedling stage, young and actively growing. Do not count cotyledon leaves.

TANK MIXES WITH Goal 4F

For improved broadleaf weed control, a tank mixture of Goal 4F plus Butoxone® Herbicide or Butyrac® 200 Herbicide is suggested. Use 0.5 pint of Goal 4F (0.25 lb active) with 1 pint of Butoxone (0.22 lb active) or 0.7 to 0.9 pint of Butyrac 200 (0.175 to 0.22 lb active) per broadcast acre. See MIXING DIRECTIONS for surfactant recommendations. Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.

TIMING

Soybean plant height must be a minimum 8 inches or greater. Use branch lifters or shields if excessive spray contact to the soybean plant cannot be avoided.

METHOD OF APPLICATION

Accurate, uniform placement of Goal 4F spray is essential for effective weed control and to minimize soybean injury. As a directed postemergence application, Goal 4F should be applied at 20 to 25 psi using 20 to 40 gallons of spray on a broadcast acre basis. **Do not** exceed 25 psi. Spray should be directed towards the base of the soybean plant. Soybean foliage receiving accidental spray or drift may be injured. Weeds should be in the seedling stage, young and actively growing.

Goal 4F can be applied using a post-direct spray rig with only 2 flat fan nozzles per row, 1 nozzle on each side of the row. Additional care should be taken when adjusting the sprayer prior to application. For best coverage, it is suggested to use 4 flat fan nozzles per row, 2 nozzles on each side of the row. The 2 forward nozzles should point forward and downward while the rear nozzles should point to the rear and downward. With either sprayer system, nozzles should be adjusted to cover the weed foliage with minimum contact to the soybean plant. **Do not use cone nozzles.**

**TANK MIXTURE OF Goal 4F HERBICIDE WITH COMMAND® 6EC HERBICIDE
SOYBEANS (NOT FOR USE IN CALIFORNIA)**

Goal 4F when applied preemergence at 0.3 to 0.4 pint (0.16 to 0.2 lb active) per acre in a tank mix combination with Command 6EC (EPA Reg. No. 279-3054) at 1 to 1 2/3 pints (0.75 to 1.25 lb active) is effective for the control of susceptible annual grass and broadleaf weeds in soybeans. Application should be made within one day following planting. Later applications may result in severe crop injury and are not recommended.

WEEDS CONTROLLED PREEMERGENCE

A tank mix of Goal 4F with Command 6EC at recommended dosages, provides preemergence control of the following weeds:

GRASS WEEDS

BARNYARDGRASS
CRABGRASS
 (CRABGRASS, LARGE)
 (CRABGRASS, SMOOTH)
CUPGRASS, SOUTHWEST
CUPGRASS, WOOLLY
FOXTAIL
 (FOXTAIL, GIANT)
 (FOXTAIL, GREEN)
 (FOXTAIL, ROBUST PURPLE)
 (FOXTAIL, YELLOW)
GOOSEGRASS

BROADLEAF WEEDS

BEGGARWEED, FLORIDA
CROTON, TROPIC
GROUNDCHERRY, CUTLEAF †
JIMSONWEED
LAMBSQUARTERS
MALLOW, VENICE
NIGHTSHADE, BLACK †
PIGWEEED, REDROOT
PURSLANE, COMMON
PUSLEY, FLORIDA
SHEPHERDSPURSE
SIDA, PRICKLY

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JOHNSONGRASS (SEEDLING)
 PANICUM
 (PANICUM, FALL)
 (PANICUM, TEXAS)
 SANDBUR, FIELD
 SIGNALGRASS, BROADLEAF
 (BRACHIARIA)

SMARTWEED, PENNSYLVANIA
 SOWTHISTLE, COMMON[†]
 VELVETLEAF

[†] Suppression.

SOYBEANS - SPECIFIC ENVIRONMENTAL HAZARDS

This product is highly toxic to freshwater clams, oysters, aquatic invertebrates and aquatic plants. Do not apply Goal 4F where visible erosion to aquatic habitats and/or wetlands occurs. (See container for further information on Environmental Hazards).

SOYBEANS - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Read and observe all label directions before using. Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.
- Do not make more than two applications of Goal 4F per growing season.
- Do not apply more than 1 pint (0.5 lbs active) of Goal 4F per acre during one growing season as a result of preemergence application in no-till (double-crop) or conventional till soybeans, or post-directed in conventional till soybeans. If early preplant application is made, do not apply more than 1.5 pints (0.75 lb active) of Goal 4F per acre during one growing season.
- Do not apply a post-directed application of Goal 4F to soybeans after the initial appearance of blooms.

TARO

FOR USE IN HAWAII ONLY

GENERAL INFORMATION

Goal 4F is a selective herbicide for preemergence and post-direct application to dryland taro for the control of certain broadleaf weeds.

NOTE: Dryland taro is defined as a taro grown without irrigation, or by using irrigation practices that do not result in runoff, irrigation return flow, or other loss of irrigation water from the production area. If irrigation is used, the water applied shall not exceed the field capacity of the soil.

Occasionally, after the use of Goal 4F, a spotting, crinkling or flecking may appear on the leaves of the taro. Leaves that receive direct or indirect (drift) spray contact will be injured.

Do not use Goal 4F on taro plantings that are weak, or under stress due to temperature, disease, fertilizer, nematodes, insects, pesticides, drought or excessive moisture.

DOSAGE

Apply Goal 4F at a rate of 1 pint (0.5 lb active) per broadcast acre as a single preemergence application within one week after transplanting (and prior to emergence) of the taro.

Goal 4F is also recommended as a post-direct application of 0.5 pint (0.25 lb active) per acre. Effective control of succulent weed seedlings in the 2-to 3-leaf stage can usually be obtained. Do not apply more than 0.5 pint (0.25 lb active) of Goal 4F per acre in a single post-direct application, or more than 1 pint (0.5 lb active) per broadcast acre per season as a result of multiple post-direct applications.

Dosages listed are for broadcast application. For banded application, the amount of Goal 4F used per acre should be reduced according to the following formula:

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| | | | | |
|-------------------------------|---|----------------|---|------------------------|
| <u>Band Width (in inches)</u> | X | Rate per | = | Amount Needed per Acre |
| <u>Row Width (in inches)</u> | | Broadcast Acre | | for Banded Application |

WEEDS CONTROLLED

Goal 4F will provide preemergence and postemergence control of the following weeds when used at the recommended dosage. Applications to weeds beyond the 3-leaf stage may result in partial control:

AMARANTH, SPINY SPURGE, GARDEN
PURSLANE, COMMON

TIMING AND METHOD OF APPLICATION

Goal 4F should be thoroughly mixed with clean water at recommended concentrations, and applied in a minimum of 15 gallons of water per acre.

When applied preemergence, use conventional ground spray equipment with flat fan nozzles at 20 to 40 psi. Accurately calibrate spray equipment prior to each use.

When applied as a post-direct spray, sprays must be directed to the base of the taro plant. Accurate, uniform placement of Goal 4F is essential for effective weed control and to minimize crop injury. Taro foliage receiving accidental spray or drift will be injured. Goal 4F must be applied using rigid precision ground sprayer equipment. As a directed postemergence application, Goal 4F should be applied at 20 to 25 psi using 20 to 40 gallons of spray on a broadcast acre basis. Do not exceed 25 psi.

TARO - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Do not apply more than 1 pint (0.5 lb active) of Goal 4F per broadcast acre as a single preemergence application.
- Do not apply more than 0.5 pint (0.25 lb active) of Goal 4F per broadcast acre in a single post-direct spray or more than 1 pint (0.5 lb active) per broadcast acre per season as a result of multiple post-direct applications.
- Do not apply more than 2 pints (1.0 lb active) of Goal 4F per broadcast acre per season as a result of preemergence and post-direct applications.
- Do not apply Goal 4F within 6 months of harvest of taro (corms, leaves).
- For use only to dryland taro grown in Hawaii. (Dryland taro is defined as taro grown without irrigation, or by using irrigation practices that do not result in run-off, irrigation return flow, or other loss of irrigation water from the production area. If irrigation is used, the water applied shall not exceed the field capacity of the soil.)

TREEFRUIT/NUT/VINE**DORMANT APPLICATION**

ALMOND, APPLE, APRICOT, AVOCADO, BEECHNUT, BRAZIL NUT, BUTTERNUT, CASHEW, CHERRY, CHESTNUT, CHINQUAPIN, CRAB APPLE, DATE, FEIJOA, FIG, FILBERT, GRAPES, HICKORY NUT, KIWI, LOQUAT, MACADAMIA NUT, MAYHAW, NECTARINE, OLIVES, PEACH, PEAR, PECAN, PERSIMMON, PISTACHIO, PLUM, POMEGRANATES, PRUNE, QUINCE, WALNUT

GENERAL INFORMATION

Goal 4F is effective as a preemergence and/or postemergence herbicide when used alone or in recommended combinations, for the control of certain annual broadleaf weeds, in certain bearing and nonbearing treefruit, nut or vine plantings.

The most effective postemergence weed control is achieved when Goal 4F is applied to seedling weeds. For postemergence control of certain grass and broadleaf weeds, a tank mixture of Goal 4F with either paraquat (Gramoxone) or glyphosate (Roundup) can be used.

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For preemergence control of susceptible grass and broadleaf weeds in certain treefruit, nut or vine plantings, a tank mixture of Goal 4F with napropamide (Devrinol), diuron (Karmex), pronamide (Kerb* Herbicide), simazine, norflurazon (Solicam Herbicide) or oryzalin (Surflan Herbicide) can be applied. Contact herbicides such as paraquat (Gramoxone) or glyphosate (Roundup) may also be added to the tank mixture.

Check individual product labels to determine suitability and use rates for various crops.

Goal 4F USED ALONE
GEOGRAPHIC USE DIRECTIONS
ARIZONA AND CALIFORNIA

DOSAGE

Goal 4F is recommended for postemergence control at 1 to 4 pints (0.5 to 2.0 lb active) per broadcast acre. For preemergence control of susceptible weeds, use 2.5 to 4 pints (1.25 to 2.0 lb active) per broadcast acre.

WEEDS CONTROLLED POSTEMERGENCE (weeds up to 4 inches high)—Apply 1 to 4 pints (0.5 to 2.0 lb active) of Goal 4F per broadcast acre. Applications to weeds beyond this 4-inch stage may result in partial control.

| | |
|----------------------|--------------------|
| CHEESEWEED (MALVA) | MINERSLETTUCE |
| FIDDLENECK, COAST | NETTLE, BURNING |
| FILAREE, BROADLEAF † | PIGWEEED, REDROOT |
| FILAREE, REDSTEM † | REDMAIDS |
| FILAREE, WHITESTEM † | SHEPHERDSPURSE †† |
| GROUNDSEL, COMMON | SOWTHISTLE, ANNUAL |
| HENBIT | |

† Goal 4F at the 4-pint rate (2.0 lb active) will provide control of filaree not exceeding the 4-inch stage.

Applications to filaree beyond the 4-inch stage may result in partial control.

†† Requires maximum rate and/or multiple applications for effective control.

WEEDS CONTROLLED PREEMERGENCE—Apply 2.5 to 4 pints (1.25 to 2.0 lb active) of Goal 4F per broadcast acre.

| | |
|---------------------|-----------------------|
| BURCLOVER | LAMBSQUARTERS, COMMON |
| CHEESEWEED (MALVA) | LETTUCE, PRICKLY |
| FIDDLENECK, COAST | PIGWEEED, REDROOT |
| FILAREE, BROADLEAF | PURSLANE, COMMON |
| FILAREE, REDSTEM | REDMAIDS |
| FILAREE, WHITESTEM | ROCKET, LONDON |
| GROUNDSEL, COMMON | SHEPHERDSPURSE |
| HENBIT | SOWTHISTLE, ANNUAL |
| KNOTWEED, PROSTRATE | |

ALL OTHER STATES (EXCEPT CALIFORNIA AND ARIZONA)

DOSAGE

Goal 4F is recommended for postemergence control at 1 to 4 pints (0.5 to 2.0 lb active) per broadcast acre. For preemergence control of susceptible weeds, use 2.5 to 4 pints (1.25 to 2.0 lb active) per broadcast acre.

WEEDS CONTROLLED POSTEMERGENCE: Apply 1 to 4 pints (0.5 to 2.0 lb active) of Goal 4F per broadcast acre. The lower rate is recommended for the control of susceptible seedling weeds in the early postemergence stage up to the 4-leaf stage. The higher rate (2.0 lb active) should be used for weeds up to the 6-leaf stage. Applications to weeds beyond the 6-leaf stage may result in partial control.

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| | |
|-----------------------------|-------------------------|
| BALSAMAPPLE | PEPPERWEED, VIRGINIA |
| COCKLEBUR, COMMON | PIGWEED, REDROOT |
| CUDWEED, NARROWLEAF † | POINSETTIA, WILD |
| EVENINGPRIMROSE, CUTLEAF †† | PURSLANE, COMMON |
| GROUNDCHERRY, CUTLEAF | SESBANIA, HEMP |
| GROUNDCHERRY, WRIGHT | SHEPHERDSPURSE †† |
| JIMSONWEED | SIDA, PRICKLY (TEAWEED) |
| LAMBSQUARTERS, COMMON | SMARTWEED, PENNSYLVANIA |
| MORNINGGLORY, ANNUAL | SOWTHISTLE, ANNUAL |
| NIGHTSHADE, AMERICAN BLACK | VELVETLEAF |
| NIGHTSHADE, BLACK | |

† Maximum 0.5-inch diameter

†† Highest rate and/or multiple applications may be required for acceptable control. Do not apply more than 4 pints (2.0 lb active) per broadcast acre of Goal 4F in one season.

WEEDS CONTROLLED PREEMERGENCE: Apply 2.5 to 4 pints (1.25 to 2.0 lb active) of Goal 4F per broadcast acre.

| | |
|----------------------------|-------------------------|
| CAMPHORWEED | PIGWEED, REDROOT |
| CUDWEED, NARROWLEAF | POINSETTIA, WILD |
| EVENINGPRIMROSE, CUTLEAF † | SIDA, PRICKLY |
| GROUNDCHERRY, CUTLEAF | SMARTWEED, PENNSYLVANIA |
| JIMSONWEED | SOWTHISTLE, ANNUAL |
| LAMBSQUARTERS, COMMON | SPURGE, PROSTRATE |
| NIGHTSHADE, AMERICAN BLACK | SPURGE, SPOTTED |
| NIGHTSHADE, BLACK | VELVETLEAF |
| PEPPERWEED, VIRGINIA | |

† Highest rate and/or multiple applications may be required for acceptable control. Do not apply more than 4 pints (2.0 lb active) per broadcast acre of Goal 4F in one season.

ALL STATES

TIMING AND METHOD OF APPLICATION

In Arizona and California, Goal 4F can be applied during the period following completion of final harvest up to February 15 (February 1st in the Coachella Valley, California). Applications made after the calendar dates above, but prior to bud swell, may result in significant crop injury and are the responsibility of the user.

In all states, do not apply Goal 4F after buds start to swell until completion of final harvest. Do not apply when fruit/nuts are present. Goal 4F can be applied upon completion of final harvest.

As a preemergence treatment, apply a minimum of 40 gallons of water per acre. Use higher volumes to ensure adequate coverage in high densities of emerged weeds or heavy trash. Best preemergence results are achieved when spray is applied to a relatively weed-free established berm or soil surface. Goal 4F should be directed to the soil and the base of dormant trees or vines. Use a low-pressure sprayer equipped with a breakaway boom and flat fan nozzles. An off-center (OC) nozzle positioned at the end of the boom may be desired. See SPECIFIC USE RESTRICTIONS for Goal 4F application on dormant tree or vine plantings.

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SPRAY VOLUME:

| Weed Stage | Gallons of Water per Acre |
|---|---------------------------|
| Preemergence | 40 or more |
| Postemergence (up to 4-inch or 4-leaf stage) | 40 or more |
| Exceeding 4-inch or 4-leaf stage | 100 or more |

TANK MIXES WITH Goal 4F

IMPORTANT: Read and observe all label directions before using. Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.

DOSAGE

For preemergence control of susceptible grass and broadleaf weeds in certain bearing and nonbearing treefruit, nut or vine plantings, a tank mixture of Goal 4F with napropamide (Devrinol Herbicide), diuron (Karmex Herbicide), pronamide (Kerb Herbicide), simazine, norflurazon (Solicam Herbicide) or oryzalin (Surflan Herbicide) can be applied. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

For postemergence control of susceptible grass and broadleaf weeds in certain treefruit, nut or vine plantings, a tank mixture of paraquat (Gramoxone Herbicide) or glyphosate (Roundup Herbicide) with Goal 4F or combinations of Goal 4F plus napropamide (Devrinol herbicide), diuron (Karmex Herbicide), pronamide (Kerb Herbicide), simazine, norflurazon (Solicam Herbicide) or oryzalin (Surflan Herbicide) with either paraquat (Gramoxone Herbicide) or glyphosate (Roundup Herbicide) can be used. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

WEEDS CONTROLLED

In addition to the weeds controlled by Goal 4F used alone, control of susceptible weeds listed on the respective labels for the following products is also obtained:

| | |
|------------------------|-----------------------|
| diuron (Karmex) | oryzalin (Surflan) |
| glyphosate (Roundup) | paraquat (Gramoxone) |
| napropamide (Devrinol) | pronamide (Kerb) |
| norflurazon (Solicam) | simazine [†] |

[†] In addition, simazine provides preemergence control of horseweed (marestalk).

TREEFRUIT/NUT/VINE**SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Do not apply Goal 4F during the period between bud swell and completion of final harvest or when fruit/nuts are present. Goal 4F can be applied upon completion of final harvest.
- **IN ARIZONA AND CALIFORNIA, Goal 4F can be applied during the period following completion of final harvest up to February 15 (February 1st in the Coachella Valley, California). Applications made after the calendar dates above, but prior to bud swell, may result in significant crop injury and are the responsibility of the user.**
- Do not apply more than 4 pints (2.0 lb active) per broadcast acre of Goal 4F in one season.
- Do not apply to grapes or kiwi established less than 3 years unless vines are on a trellis wire a minimum of 3 feet above the soil surface.
- Do not apply to grapes or kiwi that are not staked or trellised unless vines are free-standing.
- Goal 4F or any of the combinations recommended on this label should be applied to only healthy growing trees or vines.
- Direct spray toward the base of tree or vines. Avoid direct plant contact.

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SPECIFIC USE RESTRICTIONS FOR INDIVIDUAL CROPS ARE FOUND UNDER DIRECTIONS FOR USE IN EACH CROP GROUP SECTION.

USE RESTRICTIONS THAT APPLY TO ALL REGISTERED APPLICATIONS ARE LISTED BELOW:

GENERAL USE RESTRICTIONS

- Read and observe all label directions before using. Carefully follow the Directions for Use on the labeling of any tank mix partner used with Goal 4F.
- Do not contaminate irrigation water or water used for domestic purposes.
- Do not use any plants treated with Goal 4F for feed or forage.
- Do not feed or allow animals to graze on any areas treated with Goal 4F.
- Goal 4F should be applied only by ground application equipment except as specifically directed on this label or on other approved Dow AgroSciences supplemental labeling.
- Do not apply when weather conditions favor drift. Avoid drift to all non-target areas. Goal 4F is phytotoxic to plant foliage.
- Thoroughly flush spray equipment (tank, pump, hoses and boom) with clean water before and after each use. Residual Goal 4F remaining in spray equipment may damage other crops. To assist removal of Goal 4F residues in spray equipment, Latron AG-98 or Latron CS-7 may be added at the rate of 1 quart per 100 gallons of water during flushing.
- Use Goal 4F only for recommended purposes and at recommended rates.
- Do not treat ditch banks or waterways with Goal 4F.
- **CHEMIGATION: Do not apply this product through any type of irrigation system.**
- **ROTATION CROP RESTRICTIONS:** Do not rotate to small-grain crops (includes barley, buckwheat, corn, pearl millet, proso millet, oats, popcorn, rice, rye, sorghum, triticale, wheat, wild rice) within 10 months following a Goal 4F treatment.

Do not direct seed any crops, other than oxyfluorfen-labeled crops, within 60 days following a Goal 4F treatment.

Do not transplant seedling crops, other than oxyfluorfen-labeled crops, within 30 days following a treatment with Goal 4F. **IMPORTANT: treated soil must be thoroughly incorporated to a depth of 4 inches after harvest (or abandoning) of the treated crop but prior to planting of the rotational crop. Failure to achieve this thorough and complete incorporation or to follow the required minimum plant-back interval may result in crop injury, stand reduction and/or vigor reduction of the plant-back crop.** See specific fallow bed labeling regarding crop planting information for applications of Goal 4F made to a fallow bed or fallow field.

WEEDS LISTED

| | |
|----------------------------|---------------------------------|
| AGERATUM | <i>Ageratum conyzoides</i> |
| AMARANTH, SPINY | <i>Amaranthus spinosus</i> |
| BALSAMAPPLE | <i>Momordica charantia</i> |
| BARNYARDGRASS (WATERGRASS) | <i>Echinochloa crus-galli</i> |
| BEDSTRAW, CATCHWEED | <i>Galium aparine</i> |
| BITTERCRESS, LESSER | <i>Cardamine oligosperma</i> |
| BLUEGRASS, ANNUAL | <i>Poa annua</i> |
| BUCKWHEAT, WILD | <i>Polygonum convolvulus</i> |
| BURCLOVER | <i>Medicago hispida</i> |
| BUTTERCUP, SMALLFLOWER | <i>Ranunculus Abortivus</i> |
| BUTTONWEED | <i>Borreria laevis</i> |
| CAMPHORWEED | <i>Heterotheca subaxillaris</i> |
| CANARYGRASS (ANNUAL) | <i>Phalaris canariensis</i> |
| CARPETWEED | <i>Mollugo verticillata</i> |
| CHEESEWEED (MALVA) | <i>Malva parviflora</i> |
| CLOVER, RED | <i>Trifolium pratense</i> |
| CLOVER, WHITE | <i>Trifolium repens</i> |

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|------------------------------------|--------------------------------|
| COCKLEBUR, COMMON | <i>Xanthium pensylvanicum</i> |
| CRABGRASS, LARGE (HAIRY) | <i>Digitaria sanguinalis</i> |
| CROTALARIA | <i>Crotalaria species</i> |
| CROTON, TROPIC | <i>Croton glandulosus</i> |
| CUDWEED, NARROWLEAF | <i>Gnaphalium falcatum</i> |
| EVENINGPRIMROSE, CUTLEAF | <i>Oenothera laciniata</i> |
| FIDDLENECK, COAST | <i>Amsinckia intermedia</i> |
| FILAREE, BROADLEAF | <i>Erodium botrys</i> |
| FILAREE, REDSTEM | <i>Erodium cicutarium</i> |
| FILAREE, WHITESTEM | <i>Erodium moschatum</i> |
| FIREWEED (FROM SEED) | <i>Epilobium angustifolium</i> |
| FLIXWEED | <i>Descurainia sophia</i> |
| FOXTAIL, GIANT | <i>Setaria faberi</i> |
| FOXTAIL, GREEN | <i>Setaria viridis</i> |
| FOXTAIL, YELLOW | <i>Setaria lutescens</i> |
| GERANIUM, CAROLINA | <i>Geranium carolinianum</i> |
| GOOSEGRASS | <i>Eleusine indica</i> |
| GROUNDCHERRY, CUTLEAF | <i>Physalis angulata</i> |
| GROUNDCHERRY, WRIGHT | <i>Physalis wrightii</i> |
| GROUNDSEL, COMMON | <i>Senecio vulgaris</i> |
| HENBIT | <i>Lamium amplexicaule</i> |
| HORSEWEED (MARESTAIL) | <i>Conyza canadensis</i> |
| JIMSONWEED | <i>Datura stramonium</i> |
| JOHNSONGRASS, SEEDLING | <i>Sorghum halepense</i> |
| KNOTWEED, PROSTRATE | <i>Polygonum aviculare</i> |
| LADYSTHUMB (SMARTWEED) | <i>Polygonum persicaria</i> |
| LAMBSQUARTERS, COMMON | <i>Chenopodium album</i> |
| LETTUCE, PRICKLY (CHINA LETTUCE) | <i>Lactuca serriola</i> |
| MALLOW, LITTLE (MALVA) | <i>Malva parviflora</i> |
| MAYWEED (DOG FENNEL) | <i>Anthemis cotula</i> |
| MINERSLETTUCE | <i>Montia perfoliata</i> |
| MORNINGGLORY SPECIES, ANNUAL | <i>Ipomoea species</i> |
| MORNINGGLORY, IVYLEAF | <i>Ipomea hederacea</i> |
| MORNINGGLORY, TALL | <i>Ipomea purpurea</i> |
| MUSTARD, BLACK | <i>Brassica nigra</i> |
| MUSTARD, BLUE (PURPLE MUSTARD) | <i>Chorispora tenella</i> |
| MUSTARD, COMMON YELLOW | <i>Brassica campestris</i> |
| MUSTARD, HEDGE | <i>Sisymbrium officinale</i> |
| MUSTARD, TUMBLE (JIM HILL MUSTARD) | <i>Sisymbrium altissimum</i> |
| MUSTARD, WILD | <i>Brassica kaber</i> |
| NETTLE, BURNING | <i>Urtica urens</i> |
| NIGHTSHADE, AMERICAN BLACK | <i>Solanum americanum</i> |
| NIGHTSHADE, BLACK | <i>Solanum nigrum</i> |
| NIGHTSHADE, HAIRY | <i>Solanum sarrachoides</i> |
| OATS, WILD | <i>Avena fatua</i> |
| ORACH, RED | <i>Atriplex rosea</i> |
| OXALIS (BERMUDA BUTTERCUP) | <i>Oxalis pes-caprae</i> |
| PANICUM, FALL | <i>Panicum dichotomiflorum</i> |
| PEPPERWEED, VIRGINIA | <i>Lepidium virginicum</i> |
| PEPPERWEED, YELLOWFLOWER | <i>Lepidium perfoliatum</i> |
| PIGWEED, PROSTRATE | <i>Amaranthus blitoides</i> |
| PIGWEED, REDROOT | <i>Amaranthus retroflexus</i> |
| PIMPERNEL, SCARLET | <i>Anagallis arvensis</i> |
| POINSETTIA, WILD | <i>Euphorbia heterophylla</i> |
| PUNCTUREVINE | <i>Tribulus terrestris</i> |

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|---------------------------|--------------------------------|
| PURSLANE, COMMON | <i>Portulaca oleracea</i> |
| PUSLEY, FLORIDA | <i>Richardia scabra</i> |
| RAGWEED, COMMON | <i>Ambrosia artemisiifolia</i> |
| REDMAIDS | <i>Calandrinia caulescens</i> |
| ROCKET, LONDON | <i>Sisymbrium irio</i> |
| RYEGRASS, ITALIAN | <i>Lolium multiflorum</i> |
| SAGE, LANCELEAF | <i>Salvia reflexa</i> |
| SANDBUR, FIELD | <i>Cenchrus incertus</i> |
| SANDSPURRY, RED | <i>Spergularia rubra</i> |
| SESBANIA, HEMP | <i>Sesbania exaltata</i> |
| SHEPHERDSPURSE | <i>Capsella bursa-pastoris</i> |
| SICKLEPOD | <i>Cassia obtusifolia</i> |
| SIDA, PRICKLY (TEAWEED) | <i>Sida spinosa</i> |
| SIGNALGRASS, BROADLEAF | <i>Brachiaria platyphylla</i> |
| SMARTWEED, PENNSYLVANIA | <i>Polygonum pensylvanicum</i> |
| SORREL, RED (FROM SEED) | <i>Rumex acetosella</i> |
| SOWTHISTLE, ANNUAL | <i>Sonchus oleraceus</i> |
| SPEEDWELL, BIRDSEYE | <i>Veronica persica</i> |
| SPURGE, GARDEN | <i>Euphorbia hirta</i> |
| SPURGE, PROSTRATE | <i>Euphorbia supina</i> |
| SPURGE, SPOTTED | <i>Euphorbia maculata</i> |
| SPURRY, CORN | <i>Spergula arvensis</i> |
| TANSYMUSTARD | <i>Descurainia pinnata</i> |
| THISTLE, BULL | <i>Cirsium vulgare</i> |
| THISTLE, RUSSIAN | <i>Salsola kali</i> |
| VELVETLEAF | <i>Abutilon theophrasti</i> |
| WITCHGRASS | <i>Panicum capillare</i> |
| WITCHWEED | <i>Striga asiatica</i> |
| WOODSORREL, COMMON YELLOW | <i>Oxalis stricta</i> |

Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.

Warranty Disclaimer

Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow AgroSciences' election, one of the following:

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1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer and Inherent Risks of Use above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

*Trademark of Dow AgroSciences LLC
EPA-accepted 09-11-2002

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308/2E
July 22, 2004



Document Processing Desk (**NOTIF**)
Office of Pesticide Programs (7504C)
U. S. Environmental Protection Agency
Room 266A, Crystal Mall 2
1801 South Bell Street
Arlington, VA 22202

GOAL 4F (AI: OXYFLUROFEN)
EPA REGISTRATION NUMBER: 62719-447
NOTIFICATION OF MINOR LABEL CHANGE PER PR NOTICE 98-10

Enclosed please find labeling for the notification action of Goal[®] 4F herbicide. The following changes have been made by notification:

1. Corrected instances of "Goal 2XL" to read "Goal 4F" and corrected rates in Fallow Bed table and max rate in Tree/Nut/Vine section (Note: Source label was Goal 2XL and rates in question in the Fallow Bed table and max rate for Tree/Nut/Vine section had not been adjusted to reflect the 4 lb/gal formulation of Goal 4F).
2. On Page 5, in the heading "Directions for use", the "u" has been capitalized to read "Directions for Use".
3. On Page 22 of the Cotton section, under "DOSAGE", two instances of use of an asterisk to refer to a footnote have been changed to daggers to correctly match up with the footnote.
4. On Pages 26 and 27 of the Fallow Bed section, the headings which say "up to 1.0 pints/A" were corrected to read "1.0 pint/A".
5. On Page 39 of the Mint section, in the "WESTERN OREGON" box, the extra bullet has been deleted so the sentence now reads ("4F" added) "**DO NOT APPLY Goal 4F IN THE WILLAMETTE VALLEY TO MINT THAT HAS BEEN PLOWED.**"
6. Two sentences on Page 53 under "General Use Restrictions" containing the words "...Goal-labeled..." were corrected as follows (deleted text is denoted by strike-through and added text is underlined):
Do not direct seed any crops, other than Goal-~~oxyfluorfen~~-labeled crops, within 60 days following a Goal 4F treatment.

Do not transplant seedling crops, other than Goal-~~oxyfluorfen~~-labeled crops, within 30 days following a treatment with Goal 4F.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Contents of Submission

- Transmittal document (this letter)
- Application for Pesticide, EPA Form 8570-1 with attached Registration Notes
- Label entitled Goal 4F (F2B /Goal 4F (MTR) /Notification/07/16/04)
(56 Pages plus Registration Notes) (5 Copies)

GOAL 4F (A. I.: OXYFLUROFEN)
EPA REGISTRATION NUMBER: 62719-447
NOTIFICATION OF MINOR LABEL CHANGE PER PR NOTICE 98-10
July 22, 2004

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If you require further information, please contact Richard Bjerregaard, Regulatory Specialist at 317-337-4674 or Chris Hutchison, Registration Assistant for this product, at 317-337-4976.

Sincerely,



Barbara J. Kaminski
Regulatory Leader
Regulatory Success - Americas
317-337-5424
317-337-4649 (FAX)

ch/

Enclosures