

62719-648

2/3/2014

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number:

62719-648

Date of Issuance:

FEB -3 2014

NOTICE OF PESTICIDE:

[x] Registration
[ ] Reregistration
(under FIFRA, as amended)

Term of Issuance:

unconditional

Name of Pesticide Product:

GF-2764

Name and Address of Registrant (include ZIP Code):

Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

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

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

This product is registered in accordance with FIFRA section 3(c)(5) provided that you:

- 1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. Make the following label revision(s):
a. Revise "EPA Reg. No.62719-xxx" to "EPA Reg. No. 62719-648."
b. Assure that the EPA establishment number and net contents are also added to the final printed label.
3. Within one year of the date on this registration notice, the Storage Stability (830.6317) and Corrosion Characteristics (830.6320) studies must be submitted. They must be conducted in the commercial containers of this product and observations should be made at 0, 3, 6, 9, and 12 month intervals.
4. Per 40 CFR 156.10(6), submit one copy of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec.6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. The basic, alternate #1 and #2 formulations dated 7/3/2012 are acceptable and will be added to your file. If you have any questions regarding this notice, please contact Beth Benbow of my staff at benbow.bethany@epa.gov.

Signature of Approving Official:

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

[Handwritten signature of Kathryn V. Montague]

Date:

FEB -3 2014

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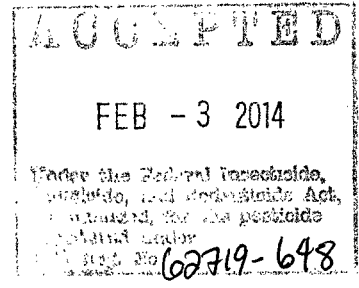
(Base label):

# GF-2764

## HERBICIDE

For selective postemergence grass weed control in rice

**GROUP 4 HERBICIDE**



**Active Ingredients:**

- cyhalofop: 2-[4-(4-cyano-2- fluorophenoxy) phenoxy] propanoic acid, butyl ester, (R)..... 18.14%
- fluroxypyr1-methylheptyl ester: ((4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy)acetic acid, 1-methylheptyl ester..... 22.71%
- Other Ingredients ..... 59.15%
- Total ..... 100.00%

Contains 1.31 lb of fluroxypyr acid equivalent and 1.54 lb of cyhalofop-butyl active ingredient per gallon.

**Keep Out of Reach of Children**

### CAUTION

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#### Precautionary Statements

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#### Hazards to Humans and Domestic Animals

**Causes Moderate Eye Irritation**

**Avoid contact with eyes or clothing.**

#### Personal Protective Equipment (PPE)

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Socks and shoes

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### Engineering Controls

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 clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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**First Aid**

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-800-992-5994 for emergency medical treatment information.

**Environmental Hazards**

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark except when treating rice fields as specified in this product label. Drift from ground or aerial applications is likely to result in damage to sensitive aquatic organisms in water bodies adjacent to the treatment area. Do not contaminate water when disposing of equipment wash waters or rinsate.

**NOTE: See Surface Water and Groundwater advisories in label booklet under Environmental Hazards.**

**Agricultural Use Requirements**

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

**(Storage and Disposal for rigid containers 5 gal or less)****Storage and Disposal**

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

**Pesticide Storage:** Store in cool dry place in original container.

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

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.

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

**(Storage and Disposal for refillable rigid containers larger than 5 gal)****Storage and Disposal**

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

**Pesticide Storage:** Store in cool dry place in original container.

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

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

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the

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container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**(Storage and Disposal for nonrefillable rigid containers larger than 5 gal)**

**Storage and Disposal**

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

**Pesticide Storage:** Store in cool dry place in original container.

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

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Refer to label booklet for Directions for Use.

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

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

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

EPA Reg. No. 62719-XXX

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

®Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

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

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(Cover, shipping container):

# GF-2764

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Other Ingredients .....	59.15%
Total .....	100.00%

Contains 1.31 lb of fluroxypyr acid equivalent and 1.54 lb of cyhalofop-butyl active ingredient per gallon.

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## CAUTION

### Agricultural Use Requirements

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

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

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**NET CONTENTS** \_\_\_\_\_

(Page 1 through end):

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## Precautionary Statements

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### Hazards to Humans and Domestic Animals

## CAUTION

### Causes Moderate Eye Irritation

Avoid contact with eyes or clothing.

### Personal Protective Equipment (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Socks and shoes

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### Engineering Controls

When handlers use closed systems, 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 clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### First Aid

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-800-992-5994 for emergency medical treatment information.

### Environmental Hazards

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark except when treating rice fields as specified in this product label. Drift from ground or aerial applications is likely to result in damage to sensitive aquatic organisms in water bodies adjacent to the treatment area. Do not contaminate water when disposing of equipment wash waters or rinsate.

**Surface Water:** This chemical can contaminate surface water through spray drift from aerial and ground application equipment. Treated rice paddy water can contaminate surface water through accidental release or overflow, or by deliberate release due to normal growing practices, including interim or final release of flood water at harvest

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**Groundwater:** This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Fluroxypyr, the active ingredient in this product, is a Group 4 herbicide based on the mode of action classification system of the Weed Science Society of America. Any weed population may contain plants naturally resistant to Group 4 herbicides. Such resistant weed plants may not be effectively managed using Group 4 herbicides but may be effectively managed utilizing another herbicide alone or in mixtures from a different Group and/or by using cultural or mechanical practices. However, a herbicide mode of action classification by itself may not adequately address specific weeds that are resistant to specific herbicides. Consult your local Dow AgroSciences representative, state cooperative extension service, professional consultants or other qualified authorities to determine appropriate actions for treating specific resistant weeds.

### Best Management Practices

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

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### Directions for Use

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

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

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements 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 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Socks and shoes
- Chemical-resistant gloves made of any waterproof material

### Storage and Disposal

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

**Pesticide Storage:** Store in cool dry place in original container.

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

**Nonrefillable rigid containers 5 gallons or less:**

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.

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

**Refillable rigid containers larger than 5 gallons:**

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

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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## Product Information

GF-2764 herbicide is a postemergence herbicide for selective control of grass and broadleaf weeds in drilled and water seeded rice. A spray volume of 10 gallons or more per acre (gpa) and uniform coverage are required for optimum performance. GF-2764 is rainfast within 2 hours after application and has no preemergence or soil residual activity. Only actively growing grass or broadleaf weeds emerged at the time of application are controlled. GF-2764 will not control perennial sedges. The product may also be applied for control of susceptible grass and broadleaf weeds in ratoon rice up to 60 days before harvest.

## Use Precautions



- Reduced weed control may result if application of GF-2764 is made to weeds under stress from prior herbicide applications, preventing active growth. To help prevent reduced control, delay the application of GF-2764 until grass and broadleaf weeds resume active growth.
- If applied to heading grass weeds, heavy weed densities and/or previously untreated areas (salvage treatment), only partial control or suppression should be expected from GF-2764. Regrowth of these grass weeds may occur.
- GF-2764 does not control ACC'ase resistant weeds.
- If the spray solution pH of GF-2764 is >8, use a buffering agent to lower the pH to <8.
- Application of GF-2764 to fields that have been leveled (except water leveling) within 12 months prior to application may result in serious rice injury in areas that have been cut or filled.
- Optimum activity requires active plant growth. The temperature range of optimal herbicidal activity is 55°F to 75°F. Reduced activity may occur when temperatures are below 45°F or above 85°F.

## Use Restrictions

- **Preharvest Interval:** Do not apply within 60 days of rice harvest.
- Do not apply more than 23 fl oz of GF-2764 per acre in a single application. Do not make more than two applications or apply more than 38 fl oz of GF-2764 per acre during the growing season including first and ratoon rice crops. Sequential applications of GF-2764 must be made at least 10 days apart.
- If two applications of GF-2764 are made in one season, do not apply Clincher SF as a sequential treatment. If one application of GF-2764 at 21 fl oz is made to rice, only one application of Clincher SF at a maximum rate of 11.5 fl oz per acre can be made as a sequential postemergence treatment. If one application of GF-2764 at 23 fl oz is made to rice, only one application at a maximum rate of 10 fl oz of Clincher SF per acre can be made as a sequential postemergence treatment.
- Do not rotate treated land to crops other than rice for 3 months following application of GF-2764.
- Do not fish or commercially grow fish, shellfish or crustaceans on acres treated with GF-2764 during the year of treatment.
- Do not apply GF-2764 if grass or broadleaf weeds are under drought or hydrogen sulfide stress.
- Always use clean water with spray mixes of GF-2764. Do not use water containing rinsate from a previous spray solution, even at low concentrations, as this may reduce grass weed control from GF-2764.
- Do not apply GF-2764 directly to, or otherwise permit GF-2764 to come into contact with, soybeans, grapes, tobacco, vegetable crops, flowers, ornamental shrubs or trees, or other desirable broadleaf plants, as serious injury may occur. Do not permit spray mists containing GF-2764 to drift onto desirable broadleaf plants.
- Do not allow tank mixes of GF-2764 to sit overnight.
- Do not overlap or double spray ends of fields.
- Do not use GF-2764 for weed control in wild rice.
- **Chemigation:** Do not apply this product through any type of irrigation system.

## Mixing Directions

### Use of Adjuvants

Use of an agriculturally approved crop oil concentrate or methylated seed oil at a minimum rate of 1 quart per acre must be used for all applications of GF-2764. Read and follow all precautions on crop oil concentrate label.

### GF-2764 - Alone

Fill spray tank to one-half (1/2) full with water. Start agitation. Add correct quantity of GF-2764 and adjuvant. Continue agitation while filling spray tank to required volume and during application.

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15**GF-2764 - Tank Mixes**

Continuous agitation is required for tank mixes. Sparger pipe agitators generally provide the best agitation in spray tanks.

GF-2764 may be applied in tank mix combination with labeled rates and timings of Grasp™ SC herbicide (penoxsulam), Pendimax® 3.3 herbicide (pendimethalin), Prowl (pendimethalin), or Command (clomazone) for early postemergence, pre-flood application in rice. When tank mixing, follow label directions, including application rates, use precautions and limitations, on each respective label. State regulations may apply. Reduced grass weed control may result if GF-2764 is applied in tank mix combination with or immediately following other herbicides not listed above, especially if applied under conditions of plant stress and/or advanced grass weed growth stages. To avoid the potential of reduced grass or broadleaf weed control, apply GF-2764 to actively growing, non-stressed grass or broadleaf weeds at least 5 days before or 7 days after the application of herbicides not listed above.

**Mixing Order:** Always use clean water with spray mixes of GF-2764. Do not use water containing rinsate from a previous spray solution, even at low concentrations, as this may reduce grass or broadleaf weed control from GF-2764.

Fill the tank one-third (1/3) full with water. Start the agitation. Add different formulation types in the following order: dry flowables (DF), wettable powders (WP), aqueous suspensions (AS), flowables (F), or liquids (L). Allow each product type to completely disperse before adding another. Continue agitation and fill the spray tank to three-fourths (3/4) full, add the correct quantity of GF-2764 or other emulsifiable concentrates (EC) and mix thoroughly. Finally, add any solution (S) formulations or surfactant, agitate and finish filling. Maintain agitation during filling and during application. If spraying and agitation must be stopped before the tank is empty, suspended materials may settle to the bottom. Resuspend all of the settled material before continuing application. A sparger agitator is particularly useful for this purpose.

Carefully follow all mixing instructions for each material added to the tank. Initial dispersion of dry or flowable formulations can be improved by mixing with a small amount of water (slurrying) and pouring the slurry through a 20 to 35 mesh wetting screen in the top of the spray tank. Line screens in the tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

**Application Directions****Broadcast Spray Volume**

A spray volume of 10 gpa or more and uniform coverage are required for optimum performance when applying by aerial equipment. Apply using medium size droplets that provide sufficient coverage and weed control per ASABE S-572 standard; see NAAA, USDA or nozzle manufacturer's specifications.

**Aerial Application**

Apply at a height that provides the most effective swath width for the aircraft. Follow directions in the Aerial Spray Drift Advisory to minimize potential drift to off-target vegetation. Pattern aircraft per Operation Safe/PAASS program for calibration and uniformity to provide sufficient coverage and control. Operators are expected to stay up to date on the most recent technology and resources for minimizing drift and maximizing coverage.

**Ground Application**

For best results, do not apply GF-2764 in a ground application.

**Avoiding Injury to Non-Target Plants**

**Do not apply this product where drift may be a problem due to proximity to susceptible crops or other desirable plants.** See Buffer Zones below for restrictions.

Spray drift produced during application is the responsibility of the applicator and care should be taken to minimize off-target movement of spray during application. A drift control agent suitable for agricultural

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use may be used with this product to aid in reducing spray drift. However, if a drift control agent is used, weed control may be reduced. If used, follow all use directions and precautions on the product label.

**Buffer Zones**

Buffer zones are defined as the distance between the application site and the sensitive crop. For aerial applications, follow directions in Spray Drift Management and Aerial Drift Reduction Advisory sections, in addition to the specified buffers, to minimize potential drift to off-target vegetation. Do not apply GF-2764 when wind speeds are less than 3 mph or greater than 10 mph. The potential for injury to non-target cereal and grass crops is less likely under conditions of advanced growth stages, low wind, and dry soil moisture conditions. The buffer zones listed below must be followed:

Sensitive Crop	Ground Restrictions (ft)	Aerial Restrictions
non-target cereal and grass crops such as corn, sugar cane sudangrass, sorghum, grass grown for seed, millet, and sod farms.	50	150 feet
commercial peach and nectarine orchards	660	2 miles if wind blowing from treatment area away from sensitive crop. 4 miles if wind blowing from treatment area toward sensitive crop.

**Spray Drift Management**

Avoiding spray drift is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. Make applications only when there is little or no hazard from spray drift. The applicator and grower are responsible for considering all of these factors when making decision to apply this product.

Use the following drift management guidelines to avoid off-target drift movement from aerial applications:

- The distance between the outer most nozzles on the boom must not exceed 70% of the wingspan of fixed-wing aircraft or 80% of the helicopter rotor width.
- Nozzles must always point backward parallel to the air stream and never downward more than 45 degrees.
- Nozzles must produce medium to coarse spray droplets per ASABE S-572 Standard.

Where states have more stringent regulations, they must be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory. In general, the best drift management strategy is to apply the largest droplets that provide sufficient coverage and control.

**Aerial Drift Reduction Advisory**

**Information on Droplet Size:** The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

**Controlling Droplet Size:**

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume.
- **Pressure** - Do not exceed the nozzle manufacturer's specified pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** - Use the minimum number of nozzles that provide uniform coverage.

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- **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the air stream and never downward more than 45 degrees produces larger droplets than other orientations and is the best practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift, but may reduce coverage and weed control.

**Boom Length:** Reducing the effective boom length to 70% of the wingspan of fixed-wing aircraft or 80% of the helicopter rotor width may further reduce drift without reducing swath width. Follow EPA and state regulations.

**Application Height:** Do not apply this product at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

**Swath Adjustment:** When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Increase swath adjustment distance with increasing drift potential (higher wind, smaller drops, etc.).

**Wind:** Drift potential is lowest between wind speeds of 3 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Do not apply below 3 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

**Temperature and Humidity:** When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

**Temperature Inversions:** Do not apply this product during a local, low level temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of the smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

**Sensitive Areas:** Apply this pesticide only when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

## Application Timing

GF-2764 herbicide may be applied to rice from the 1 leaf stage up to 60 days before harvest. Within this application window, application timing is dependent upon cultural practices and optimum timing for weed species present. (See Weeds Controlled and Application Rates table.)

### Drill Seeded Rice

**Preflood:** For best results, apply GF-2764 as a preflood application. Apply to grass or broadleaf weeds in the 1 to 4 leaf stage (see table below). Tank mixing directions are described below. Good soil moisture conditions (saturated soil) and actively growing grass or broadleaf weeds are essential for preflood applications. For this reason, levee grass and broadleaf weeds may not be fully controlled by

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GF-2764. For best results, do not apply GF-2764 as a ground application as weed control may be reduced.

Flushing of rice fields may be necessary prior to application if rice or grass weeds are moisture stressed. If a field is flushed, drain the field prior to treatment so that grass or broadleaf weeds are fully exposed. Tank mix GF-2764 with a residual grass control product to prevent additional grass weed germination after treatment (see Tank Mixes section).

**Postflood:** Best results will be obtained from applications made within 7 to 10 days after flooding. Maintain the flood at application so long as grass or broadleaf weeds are at least 70% exposed. If fields are drained at application, re-flood them beginning 2 hours after application and within 24 to 48 hours to prevent germination of new weeds. Following application, it is important to maintain a flood of at least 2 to 4 inches across the field to reduce the risk of grass and broadleaf weed regrowth. A permanent flood following application will give the best results. For this reason, levee grass and broadleaf weeds may not be fully controlled by GF-2764.

For extremely heavy grass densities, a sequential application program of Clincher SF at 10 fl oz per acre can be made 7 to 14 days after the initial application of 23 fl oz of GF-2764. Only one application of Clincher SF can be made following only one application of GF-2764.

If GF-2764 is applied as a postflood salvage treatment to previously untreated areas, to fields with previous failed herbicide applications, or areas of extremely high grass or broadleaf weed density, total control of labeled grass and broadleaf weeds should not be expected. Regrowth of these grass weeds may occur.

**Water Seeded Rice**

**Before permanent flood:** Allow grass weeds to germinate before application. Good soil moisture conditions (saturated soil) and actively growing grass or broadleaf weeds are essential. Residual water remaining in the field does not adversely affect grass and broadleaf weed control so long as grass or broadleaf weeds are at least 70% exposed. For best results, do not apply GF-2764 as a ground application as weed control may be reduced. If fields are drained at application, re-flood them beginning 2 hours after application and within 24 to 48 hours after application to prevent germination of new grass weeds.

**After permanent flood (postflood):** Maintain the flood at application so long as grass or broadleaf weeds are at least 70% exposed. Following application, it is important to maintain a flood of 2 to 4 inches across the field to reduce the risk of grass and broadleaf weed regrowth. A permanent flood following application provides the best results.

For extremely heavy grass densities, a sequential application of GF-2764 can be made at 10 fl oz per acre 10 to 14 days after an initial postflood application of GF-2764 at 23 fl oz applied 7 to 10 days after the permanent flood. Only one application of Clincher SF can be made following only one application of GF-2764.

If GF-2764 is applied as a postflood salvage treatment to previously untreated areas, to fields with previous failed herbicide applications or areas of extremely high grass or broadleaf weed density, total control of labeled grass and broadleaf weeds should not be expected. Regrowth of these grass weeds may occur.

**Application Rates and Weeds Controlled  
(Arkansas, Florida, Louisiana, Mississippi, Missouri, Tennessee, and Texas)**

**Drill Seeded Rice**

Common Name	Scientific Name	Application Rates of GF-2764 and Stage of Weed Development
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Weeds Controlled		21 fl oz/acre	21 to 23 fl oz/acre <sup>1</sup>
alligatorweed	<i>Alternanthera philoxeroides</i>	preflood up to 4 leaf	postflood, prior to grass weed heading
Amazon (tighthead) sprangletop	<i>Leptochloa panicoides</i>		
annual flatsedge	<i>Cyperus iria</i>		
annual smartweed	<i>Polygonum</i> spp.		
barnyardgrass	<i>Echinochloa crus-galli</i>		
bearded sprangletop	<i>Leptochloa fascicularis</i>		
broadleaf signalgrass	<i>Brachiaria platyphylla</i>		
eclipta	<i>Eclipta alba</i>		
fall panicum	<i>Panicum dichotomiflorum</i>		
hemp sesbania/coffeeweed	<i>Sesbania exaltata</i>		
johnsongrass (seedling)	<i>Sorghum halepense</i>		
junglerice	<i>Echinochloa colona</i>		
morningglory spp.	<i>Ipomoea</i> spp.		
red sprangletop	<i>Leptochloa filiformis</i>		
Texas weed	<i>Caperonia palustris</i>		
<b>Weeds Suppressed</b>			
goosegrass	<i>Eleusine indica</i>		
large crabgrass	<i>Digitaria sanguinalis</i>		

<sup>1</sup>If applied to heading grasses, heavy weed densities and/or previously untreated areas (salvage treatment), only partial control should be expected. Regrowth of these grass weeds may occur.

**Note:** Do not apply more than 23 fl oz in a single application or apply more than 38 fl oz of GF-2764 per year in both the first and ratoon crops combined.

**Water Seeded Rice**

Common Name	Scientific Name	Application Rates of GF-2764 and Stage of Weed Development	
		21 fl oz/acre	21 to 23 fl oz/acre <sup>1</sup>
<b>Weeds Controlled</b>		preflood up to 4 leaf	mid- to-late tillering or branching, prior to grass weed heading
alligatorweed	<i>Alternanthera philoxeroides</i>		
Amazon (tighthead) sprangletop	<i>Leptochloa panicoides</i>		
annual flatsedge	<i>Cyperus iria</i>		
annual smartweed	<i>Polygonum</i> spp.		
barnyardgrass	<i>Echinochloa crus-galli</i>		
bearded sprangletop	<i>Leptochloa fascicularis</i>		
broadleaf signalgrass	<i>Brachiaria platyphylla</i>		
eclipta	<i>Eclipta alba</i>		
fall panicum	<i>Panicum dichotomiflorum</i>		
hemp sesbania/coffeeweed	<i>Sesbania exaltata</i>		
junglerice	<i>Echinochloa colona</i>		
knotgrass	<i>Paspalum distichum</i>		
morningglory spp.	<i>Ipomoea</i> spp.		
red sprangletop	<i>Leptochloa filiformis</i>		
Texas weed	<i>Caperonia palustris</i>		
<b>Weeds Suppressed</b>			
brook paspalum	<i>Paspalum acuminatum</i>		
perennial barnyardgrass	<i>Echinochloa polystachya</i>		
Texas panicum	<i>Panicum texanum</i>		
water paspalum	<i>Paspalum hydrophilum</i>		

<sup>1</sup>If GF-2764 is applied as a postflood salvage treatment to previously untreated areas, to fields with previous failed herbicide applications, or areas of extremely high grass weed density, total control of labeled grass weeds should not be expected. Regrowth of these grass weeds may occur.

**Note:** Do not apply more than 23 fl oz in a single application or apply more than 38 fl oz of GF-2764 per year in both the first and ratoon crops combined.

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### **Terms and Conditions of Use**

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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. To the extent permitted by law, otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.

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### **Warranty Disclaimer**

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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. To the extent permitted by law, Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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### **Inherent Risks of Use**

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It is impossible to eliminate all risks associated with use of this product. Crop 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 temperatures, 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. To the extent permitted by law, all such risks shall be assumed by buyer.

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### **Limitation of Remedies**

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To the extent permitted by law, 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:

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

To the extent permitted by law, 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. To the extent permitted by law, in no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

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