



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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Rafael Herrera
Dow AgroSciences LLC
9330 Zionsville Road

JUL 22 2008

Dear Mr. Herrera:

Indianapolis, IN 46268

Subject:

Label Amendment

GF-443 SC

EPA Registration Number 62719-546 Application Dated April 16, 2008

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

- 1. On page 17, change the first sentence to read "When making application to public waters, GF-443 SC **must** be applied by a Dow AgroSciences authorized applicator; this does not apply to applications made to private waters or to waters not used for irrigation."
- 2. Change "To the extent permitted by law" to read "To the extent consistent with applicable law", wherever it appears under the terms and conditions of use.

One copy of the label stamped "Accepted with Comments" is enclosed for your records. Please submit one copy of the final printed label before the product is released for shipment. If you have any questions, please contact Tracy White by phone at (703) 308-0042 or via email at white tracy@epa.gov.

Sincerely,

oanne I. Miller

Product Manager (23)

Herbicide Branch

Registration Division (7505P)

vanne I Miller

Enclosure

ACCEPTED with COMMENTS in EPA Letter Dated

JUL 2 2 2008

Under the Federal Insecticide, Fungicide, and Rodenticide Act

as amended, for the pesticide registered under EPA Reg. No.

Page 1

[Sub Label A: Turf Use]

(Base label for rigid containers 5 gal or less):

GF-443 SC

Herbicide

For postemergence control of annual and perennial broadleaf weeds in established turfgrass, including residential lawns, golf courses, sports fields, sod farms and around commercial buildings and other commercial turfgrass areas

Active Ingredient:

penoxsulam: 2-(2,2-difluoroethoxy)-N-

(5,8-dimethoxy[1,2,4] triazolo[1,5c]pyrimidin-

2-yl)-6-(trifluoromethyl)benzenesulfonamide 21.7%

Contains 2 lb of active ingredient per gallon

Keep Out of Reach of Children

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

Harmful If Inhaled

Avoid breathing spray mist.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- Shoes plus socks

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

Engineering Controls

When handlers use closed systems, 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 immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

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

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

Environmental Hazards

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

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

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 Reuse: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

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.

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. 62719-546	•	EPA Est.

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

Net	Contents	

(Base label for refillable rigid containers larger than 5 gal):

GF-443 SC

Herbicide

For postemergence control of annual and perennial broadleaf weeds in established turfgrass, including residential lawns, golf courses, sports fields, sod farms and around commercial buildings and other commercial turfgrass areas

Active Ingredient:

penoxsulam: 2-(2,2-difluoroethoxy)-N-

(5,8-dimethoxy[1,2,4] triazolo[1,5c]pyrimidin-

Contains 2 lb of active ingredient per gallon

Keep Out of Reach of Children

CAUTION

Precautionary Statements

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Harmful If Inhaled

Avoid breathing spray mist.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- Shoes plus socks

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

Engineering Controls

When handlers use closed systems, 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 immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

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

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Environmental Hazards

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

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Storage and Disposal

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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 Reuse: 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.

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Dow AgroSciences LLC	

9330 Zionsville Road Indianapolis, IN 46268

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Environmental Hazards

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Agricultural Use Requirements

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

Storage and Disposal

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

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(Label booklet cover):

GF-443 SC

Herbicide

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Contains 2 lb of active ingredient per gallon

Keep Out of Reach of Children 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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(Page 1 through end):

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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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Environmental Hazards

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

Directions for Use

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

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

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms,

forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Non-Agricultural Use Requirements

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

Entry Restrictions for Non-WPS Uses: Keep unprotected persons out of treated areas until sprays have dried.

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 containers 5 gallons or less:

Container Reuse: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

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

Refillable containers 5 gallons or larger:

Container Reuse: 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.

Nonrefillable containers 5 gallons or larger:

Container Reuse: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

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.

General Information

GF-443 SC herbicide provides postemergence control of annual and perennial broadleaf weeds in established turfgrass, including residential lawns, golf courses, sports fields, sod farms and around commercial buildings and other commercial turfgrass areas. Susceptible weeds emerged at the time of application will be controlled. A spray volume of 20 gallons per acre (gpa) or more and uniform coverage are required for optimum performance. GF-443 SC is rainfast within one hour after application and has soil residual herbicidal activity dependent upon weed species, soil type, soil moisture (rainfall or irrigation after application) and the rate of application.

General Use Precautions and Restrictions

- Do not apply GF-443 SC to golf course putting greens or tees.
- . Do not allow tank mixes of GF-443 SC to sit overnight.
- Do not apply GF-443 SC directly to, or otherwise permit GF-443 SC to come into contact with, flowers, ornamental shrubs or trees, or other desirable broadleaf plants, as serious injury may occur. Do not permit spray mists containing GF-443 SC to drift onto desirable broadleaf plants.
- · Do not collect grass clippings for use as mulch around plants.
- Do not apply more than 0.08 pints of GF-443 SC (0.02 lb ai penoxsulam) per acre per application to perennial ryegrass and tall fescue unless some injury can be tolerated.
- Do not allow sprays of GF-443 SC to contact exposed suckers or exposed roots of shallow rooted trees and shrubs or injury may occur.
- To minimize the potential for grass injury, additional applications should not be made within four weeks
 of a previous application.
- Do not apply more than 0.36 pints of GF-443 SC (0.09 lb ai penoxsulam) per acre per annual growing season.
- Use this product strictly in accordance with the drift and runoff precautions on this label in order to minimize off-site exposure.
- Chemigation: Do not apply this product through any type of irrigation system.

Treatment on Turfgrass Species Not Listed on the Label for GF-443 SC

Users who wish to use GF-443 SC on turfgrass species not recommended on this label may determine the suitability for use by treating a small area at a recommended rate. Prior to treatment of larger areas, the treated area should be observed for any sign of herbicidal injury during 30 days of normal growing conditions to determine if the target turfgrass species is tolerant. The user assumes responsibility for any plant damage or other liability resulting from use of GF-443 SC on turfgrass species not recommended on this label.

GF-443 SC is recommended for use on the following established turfgrass species (numbers in parentheses (-) refer to footnotes below):

Established Cool Season Turfgrass (1)
Common Name
bentgrass

Agrostis species

bluegrass, Kentucky

Poa pratensis

fescue, chewing

Festuca rubra var. commutata

fescue, creeping red

Festuca rubra

fescue, sheeps fescue, tall (2)

Festuca arundinaceae

ryegrass, perennial (2)

Lolium perenne

Festuca ovina

Established Warm Season Turfgrass (3) Common Name Scientific Name

bahiagrass

Paspalum notatum var. saurae

parodi

Bermudagrass (common

Cynodon dactylon

or hybrid)

zoysiagrass

centipedegrass

Eremochloa ophiuroides

fescue, tall (growing in warm season areas) (2) Festuca arundinaceae

kikuyugrass seashore paspalum Pennisetum clandestinum Paspalum vaginatum

St. Augustinegrass zoysiagrass

Stenotaphrum secundatum

Zoysia japonica Zoysia tenuifolia

Use no more than 0.16 pints of GF-443 SC (0.04 lb ai penoxsulam) per acre per application.

- 2. Use GF-443 SC on these species at a maximum rate of 0.08 pints (0.02 lb ai penoxsulam) per acre per application and only if some injury can be tolerated. A slight yellowing of turfgrass may occur within two weeks of application. The discoloration is transient and is generally gone within four weeks of treatment under adequate growing conditions.
- 3. Use no more than 0.24 pints of GF-443 SC (0.06 lb ai penoxsulam) per acre per application.

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. Low humidity and high temperatures increase the evaporation rate of spray droplets and, therefore, the likelihood of increased spray drift. Make applications only when there is little or no hazard from spray drift. The applicator, crop consultant, and grower are responsible for considering all of these factors when making the decision to apply this product.

Avoid all direct or indirect contact with non-target plants. Do not apply near desirable vegetation. Allow adequate distance between target area and desirable plants to minimize exposure.

Sensitive Areas: The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., bodies of water, known habitat for threatened or endangered species, non-target plants) is minimal (e.g., when wind is blowing away from the sensitive areas).

Weeds Controlled or Suppressed

Generally, application rates at the lower end of the recommended rate range will be satisfactory for young, succulent growth of sensitive weed species. For less sensitive species, perennials, and other conditions where control is more difficult (plant stress conditions such as drought or extreme temperatures, dense weed stands and/or larger weeds), the higher rate within the rate range or repeat applications will be needed. Weeds growing in the absence of competition from other vegetation generally require higher rates or repeat applications to obtain satisfactory control or suppression.

Rate		ate	
Weeds Controlled or Suppressed		pt/acre	fl oz/1000 sq ft
burdock	ivy, ground	0.08 - 0.24	0.03 - 0.09



F 7. 15.	r		
chickweed (common)	lambsquarters	٠	
chickweed (mouseear)	lespedeza, common		
clover, hop	matchweed		
clover, red	medic, black		
clover, white	plantain, broadleaf		
cocklebur, common	plantain, buckhorn		
coffeeweed	pursiane, common		
common vetch	ragweed, common		
creeping beggerweed	round leaf mallow		
curly dock	sheep sorrel		
dandelion, common	shepherd's purse		
dollarweed	smartweed		
dwarf beggerweed	spotted catsear		
English lawn daisy ¹	spurweed		
false dandelion	Virginia buttonweed		
Florida betony	Virginia pepperweed		
goldenrod	wild violet		
hawkweed	woodsorrel, creeping	,	
henbit	woodsorrel, yellow		
kyllinga, annual and green	nutsedge, purple and	0.16 - 0.24	0.06 - 0.09
	yellow (suppression only)2		

Special use instructions for controlling English lawn daisy:

- Late summer/fall applications of GF-443 SC have shown to provide better control of English lawn daisy than spring applications.
- Irrigate the day before applications are planned to assure turfgrass and English lawn daisy are not stressed.
- Make two to three applications on a 21-day interval at 0.04 to 0.08 pints of product per acre. Use the higher rate when heavy English lawn daisy populations are observed.
- Tank mix a quality nonionic surfactant with all applications of GF-443 SC.
- Heat and irrigation stress increase the potential for turfgrass injury. Poa annua, creeping bentgrass,
 Kentucky bluegrass and kikuyugrass are tolerant to GF-443 SC. Perennial ryegrass and tall fescue
 show some sensitivity. A slight yellowing of turfgrass may occur within two weeks of application. The
 discoloration is transient and is generally gone within two to four weeks of treatment under adequate
 growing conditions.

²Re-treatment may be necessary.

Mixing Instructions

GF-443 SC - Alone

Fill spray tank with water equal to 1/2 to 3/4 of the required spray volume. Start agitation. Add the required amount of GF-443 SC, then finish filling the tank. Continue agitation while filling spray tank to required volume and during application.

GF-443 SC - Tank Mix

GF-443 SC may be applied in tank mix combination with other herbicides labeled for use on turfgrass to control additional weeds. Tank mixing or using GF-443 SC with any other product not specifically and expressly authorized by the label shall be the exclusive risk of the user, applicator and/or application advisor. When tank mixing, follow label directions, including application rates, use precautions and limitations on each respective label. Continuous agitation is required for tank mixes.

Tank Mix Precautions:

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.



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

Tank Mix Compatibility Testing: When tank mixing GF-443 SC with other materials, a compatibility test (jar test) using relative proportions of the tank mix ingredients should be conducted prior to mixing ingredients in the spray tank. 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.

Mixing Order: Fill the tank with water to 1/4 to 1/3 of the required spray volume. Start the agitation. Different formulation types should be added 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 tank to 3/4 full, add the correct quantity of GF-443 SC and mix thoroughly. Finally, add any solution (S) formulations, 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. It is important to resuspend all of the settled material before continuing application. A sparger agitator is particularly useful for this purpose. Do not allow tank mixes to set overnight.

Application Instructions

Standard Volume Broadcast Application

Apply in a spray volume of 20 gpa or more (0.5 gallons or more per 1000 sq ft). Use a higher application volume when complete and uniform application must be ensured, i.e., when GF-443 SC is tank mixed with foliar fertilizers. If required, spray volume up to 200 gpa may be used.

Low Volume Application

Apply in a spray volume of 5 to 20 gpa (0.08 to 0.5 gallons per 1000 sq ft). Use low pressure and application equipment capable of delivering a uniform spray droplet. To improve spray coverage, the addition of a nonionic surfactant at a rate of 1/4 to 1/2 pint per acre is suggested. Use the higher rate of surfactant for lower rates of GF-443 SC and lower spray volumes.

Spot Treatments and/or Hand-Held Sprayers

Spot treatments should be applied at rates equivalent to broadcast applications.

Hand-Held Sprayers: Hand-held or backpack sprayers may be used for spot applications of GF-443 SC if care is taken to apply the spray uniformly and at a rate equivalent to a broadcast application. Application rates in the table are based upon an area of 1000 sq ft. The amount of GF-443 SC (fl oz or mL) in the table should be mixed with 1 gallon or more of water and applied to an area of 1000 sq ft. To calculate the amount of product required for larger areas, multiply the table value (fl oz or mL) by the area to be treated in "thousands" of square feet, e.g., if the area to be treated is 3500 sq ft, multiply the table value by 3.5 (calculation: $3500 \div 1000 = 3.5$). An area of 1000 sq ft is approximately 10.5×10.5 yards (strides) in size.

Rates and Timing of Application

Apply GF-443 SC to turfgrass at the rate of 0.08 to 0.24 pints per acre as a ground broadcast treatment or spot treatment. Calibrate application equipment prior to use according to manufacturer's directions. Avoid skips or overlaps as poor weed control or plant injury may occur.

GF-443 SC Broadcast Rates

Rate	Amount	
pint/Acre	fl oz ¹	mL



0.08	0.03	0.9
0.16	. 0.06	1.8
0.24	0.09	2.7

 $^{^{1}1 \}text{ fl oz} = 29.6 (30) \text{ mL}$

Best weed control results are obtained when GF-443 SC is applied to small, actively growing weeds. Extreme growing conditions such as drought or near freezing temperatures prior to, at, or following time of application may reduce weed control. Broadleaf weed species germinate at different times.

Apply GF-443 SC to newly seeded cool season turfgrass only after the third mowing or after the turfgrass seedlings have tillered and developed an adequate secondary root system. Reseeding is not recommended for at least four weeks after application

This product may also be applied to newly established warm season turfgrass. Delay treatments until two to four weeks after sodding, sprigging or plugging.

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 Limitation 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. 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. All such risks shall be assumed by buyer.

Limitation of Remedies

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. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

To the extent permitted by law, the terms of the Warranty Disclaimer, Inherent Risks of Use, and 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.

EPA accepted __/_/_

ACCEPTED with COMMENTS in EPA Letter Dated JUL 2 2 2008

Page 1 /3

[Sub-Label B: Aquatic Use]

(Base label for rigid containers 5 gal or less):

GF-443 SC

as amended, for the pesticide registered under EPA Reg. No.

Under the Federal Insecticide,

Fungicide, and Rodenticide Act

Herbicide

A selective systemic aquatic herbicide for management of freshwater aquatic vegetation in: ponds; lakes; reservoirs; marshes; wetlands; bayous; drainage ditches; non-irrigation canals; and slow-moving or quiescent bodies of water, including shoreline and riparian areas within or adjacent to these and other aquatic sites.

Active Ingredient:

penoxsulam: 2-(2,2-difluoroethoxy)-6-

trifluoromethyl-N-(5,8-dimethoxy[1,2,4]triazolo-

[1,5c]pyrimidin-2-yl)benzenesulfonamide 21.7%

Total 100.0%

Contains 2 lb of active ingredient per gallon.

Keep Out of Reach of Children CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

Harmful If Inhaled. Avoid breathing spray mist.

Personal Protective Equipment (PPE)

For all types of applications, mixers and loaders must wear:

- Long-sleeved shirt and long pants;
- · Shoes plus socks; and
- Chemical-resistant gloves made of any waterproof material.

For in-water (i.e., subsurface) applications, applicators must wear:

- · Short-sleeved shirt and long pants;
- · Shoes plus socks; and
- Chemical-resistant gloves made of any waterproof material.

For non-water applications, applicators must wear:

- · Long-sleeved shirt and long pants;
- · Shoes plus socks; and
- · Chemical-resistant gloves made of any waterproof material.

Remove and wash contaminated clothing before reuse. 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.

User Safety Recommendations

Users should:

· Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

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

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

Environmental Hazards

Follow use directions carefully so as to minimize adverse effects on non-target vegetation.

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 Reuse: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

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.

Refer to label booklet for Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Terms and Conditions of Use, 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.

Shake Well Before Using

EPA Reg. No. 62719-546

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

Net Contents	
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EPA Est.

age 3

(Base label for refillable rigid containers larger than 5 gal):

GF-443 SC

Herbicide

A selective systemic aquatic herbicide for management of freshwater aquatic vegetation in: ponds; lakes; reservoirs; marshes; wetlands; bayous; drainage ditches; non-irrigation canals; and slow-moving or quiescent bodies of water, including shoreline and riparian areas within or adjacent to these and other aquatic sites.

Keep Out of Reach of Children CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

Harmful If Inhaled. Avoid breathing spray mist.

Personal Protective Equipment (PPE)

For all types of applications, mixers and loaders must wear:

- Long-sleeved shirt and long pants;
- Shoes plus socks; and
- Chemical-resistant gloves made of any waterproof material.

For in-water (i.e., subsurface) applications, applicators must wear:

- Short-sleeved shirt and long pants;
- · Shoes plus socks; and
- · Chemical-resistant gloves made of any waterproof material.

For non-water applications, applicators must wear:

- · Long-sleeved shirt and long pants;
- · Shoes plus socks; and
- Chemical-resistant gloves made of any waterproof material.

Remove and wash contaminated clothing before reuse. 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.

User Safety Recommendations

Users should:

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

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

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

Environmental Hazards

Follow use directions carefully so as to minimize adverse effects on non-target vegetation.

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 Reuse: 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.

Refer to label booklet for Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Terms and Conditions of Use, 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.

Shake Well Before Using

Produced for		
Dow AgroSciences LLC		
9339 Zionevilla Boad		

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Indianapolis, IN 46268

EPA Reg. No. 62719-546

Net	Contents	

Page 5

(Base label for nonrefillable rigid containers larger than 5 gal):

GF-443 SC

Herbicide

A selective systemic aquatic herbicide for management of freshwater aquatic vegetation in: ponds; lakes; reservoirs; marshes; wetlands; bayous; drainage ditches; non-irrigation canals; and slow-moving or quiescent bodies of water, including shoreline and riparian areas within or adjacent to these and other aquatic sites.

Active Ingredient:

Contains 2 lb of active ingredient per gallon.

Keep Out of Reach of Children CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

Harmful If Inhaled. Avoid breathing spray mist.

Personal Protective Equipment (PPE)

For all types of applications, mixers and loaders must wear:

- · Long-sleeved shirt and long pants;
- Shoes plus socks; and
- Chemical-resistant gloves made of any waterproof material.

For in-water (i.e., subsurface) applications, applicators must wear:

- Short-sleeved shirt and long pants;
- Shoes plus socks; and
- · Chemical-resistant gloves made of any waterproof material.

For non-water applications, applicators must wear:

- Long-sleeved shirt and long pants;
- · Shoes plus socks; and
- · Chemical-resistant gloves made of any waterproof material.

Remove and wash contaminated clothing before reuse. 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.

User Safety Recommendations

Users should:

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- · Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- · Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

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

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

Environmental Hazards

Follow use directions carefully so as to minimize adverse effects on non-target vegetation.

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 Reuse: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

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.

Refer to label booklet for Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Terms and Conditions of Use, 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.

Shake Well Before Using

EPA Reg. No. 62719-546

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

Net	Contents	

(Label booklet cover):

GF-443 SC

Herbicide

A selective systemic aquatic herbicide for management of freshwater aquatic vegetation in: ponds; lakes; reservoirs; marshes; wetlands; bayous; drainage ditches; non-irrigation canals; and slow-moving or quiescent bodies of water, including shoreline and riparian areas within or adjacent to these and other aquatic sites.

Active Ingredient:	
penoxsulam: 2-(2,2-difluoroethoxy)-6-	
trifluoromethyl-N-(5,8-dimethoxy[1,2,4]triazolo-	
[1,5c]pyrimidin-2-yl)benzenesulfonamide	21.7%
Other Ingredients	78.3%
Total	100.0%
Contains 2 lb of active ingredient per gallon.	

Keep Out of Reach of Children CAUTION

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

Notice: Read the entire label. Use only according to label directions. Before using this product, read Terms and Conditions of Use, 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.

Shake Well Before Using

EPA Est.

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

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Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful If Inhaled. Avoid breathing spray mist.

Personal Protective Equipment (PPE)

For all types of applications, mixers and loaders must wear:

- · Long-sleeved shirt and long pants;
- · Shoes plus socks; and
- Chemical-resistant gloves made of any waterproof material.

For in-water (i.e., subsurface) applications, applicators must wear:

- · Short-sleeved shirt and long pants;
- · Shoes plus socks; and
- · Chemical-resistant gloves made of any waterproof material.

For non-water applications, applicators must wear:

- · Long-sleeved shirt and long pants;
- · Shoes plus socks; and
- · Chemical-resistant gloves made of any waterproof material.

Remove and wash contaminated clothing before reuse. 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.

User Safety Recommendations

Users should:

- · Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

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

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

Environmental Hazards

Follow use directions carefully so as to minimize adverse effects on non-target vegetation.

Directions for Use

Shake Well Before Using

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.



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 containers 5 gallons or less:

Container Reuse: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

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

Refillable containers 5 gallons or larger:

Container Reuse: 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.

Nonrefillable containers 5 gallons or larger:

Container Reuse: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

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.

IMPORTANT

Do not use water from any treated site for food crop irrigation until residues are determined to be less than or equal to 1 ppb (see exceptions under Applications to Waters Used for Irrigation section of this label). Concentrations in food-crop irrigation water must be monitored until concentrations are 1 ppb or less. Water samples must be collected and analyzed using ELISA or other approved analytical methods. Please refer to all precautions and restrictions under the Applications to Waters Used for Irrigation section of this label.

Do not make in-water applications to areas subject to rapid dilution of treated water and/or where sufficient exposure with targeted vegetation can not be maintained, such as small spot or shoreline treatments in larger bodies of water.



General Information

GF-443 SC herbicide is a selective systemic aquatic herbicide for management of freshwater aquatic vegetation in: ponds, lakes, reservoirs, marshes, wetlands, bayous, drainage ditches, non-irrigation canals, and slow-moving or quiescent bodies of water including shoreline and riparian areas within or adjacent to these and other aquatic sites.

GF-443 SC may be applied directly into water or sprayed onto emergent foliage of aquatic plants or exposed sediment after drawdown. Depending upon method of application and target plant, GF-443 SC is absorbed by aquatic vascular plants through emergent or floating leaves, from water through submersed plant shoots, or from hydrosoil by roots. For in-water treatments, rapid water movement or any condition resulting in rapid dilution of GF-443 SC in treated water will reduce its effectiveness. Herbicidal symptoms of GF-443 SC include: immediate growth inhibition, a chlorotic growing point with some tissue reddening, necrosis of the terminal bud after 2 or more weeks of exposure, and slow plant death over a period of 60 to 120 days or longer depending upon conditions for in-water applications. The level of control will depend upon timing of initial application, application rate or concentration, exposure period, and weed species. Species susceptibility to GF-443 SC may vary depending upon time of year, stage of growth, and water movement. For best results, apply GF-443 SC immediately after weeds begin active growth. Application to mature target plants may require higher application rates and longer exposure periods to achieve control.

This label describes both required and recommended uses of a chemical analysis for the active ingredient. Dow AgroSciences recommends the use of an Enzyme-Linked Immunoassay (ELISA) test for the determination of the active ingredient concentration in water. Contact Dow AgroSciences for the incorporation of this analysis in your treatment program. Other proven chemical analysis for the active ingredient may also be used. The ELISA analysis is referenced in this label as the preferred method for the rapid determination of the concentration of the active ingredient in the water.

General Use Precautions and Restrictions

- Consult with appropriate state or local water authorities before applying this product. Permits and posting or treatment notification may be required by state or local public agencies. Consult the agency responsible for pesticide regulations for specific details.
- There are no restrictions on consumption of treated water for potable use or by livestock, pets or other animals.
- There are no restrictions on the use of treated water for recreational purposes, including swimming and fishing.
- Chemigation: Do not apply GF-443 SC through any type of irrigation system.
- For post-emergence foliar applications or exposed sediment treatments, GF-443 SC should be mixed
 with a surfactant. Use only surfactants that are approved or appropriate for aquatic use. Use of
 organosilicone surfactants with GF-443 SC is not recommended.
- For treatments out of water, do not permit spray mists containing GF-443 SC to drift onto desirable broadleaf plants as injury may occur. Further information on spray drift management is provided in the Spray Drift Management section of this label.

Application to Waters Used for Irrigation

Irrigation using water treated with GF-443 SC may result in injury to sensitive irrigated vegetation. The following restrictions are required for irrigation use of treated water:

- Do not use water treated with GF-443 SC for hydroponic farming.
- Do not apply GF-443 SC to water to be used for irrigation of greenhouse or nursery plants. Do not use water treated with GF-443 SC for irrigating greenhouse or nursery plants.
- Do not irrigate established food crops, other than rice, if concentrations of GF-443 SC in irrigation source water exceed 1 ppb as determined using ELISA or other analytical techniques. Do not irrigate established rice if concentrations in treated water exceed 30 ppb.



- There is no restriction on use of water treated with GF-443 SC for turf irrigation, if concentrations are
 less than 30 ppb. For other non-food crop irrigation (e.g., landscape ornamentals) or for other irrigation
 uses not described above, confer with Dow AgroSciences prior to commencing irrigation if
 concentrations in treated water exceed 1 ppb as determined using ELISA or other analytical
 techniques.
- Areas previously irrigated with water treated with GF-443 SC may be planted in rice or turf. For other food crops and in areas irrigated with GF-443 SC at concentrations exceeding 1 ppb, consult with Dow AgroSciences for site-specific risk evaluations before planting.
- Do not apply GF-443 SC to actively moving or running waters (i.e., iotic waters) used for irrigation, including rivers and streams. When making applications near an active irrigation water intake, the intake must be shut-off until concentrations in the water are 1 ppb or less as determined using ELISA or other analytical techniques, except when irrigating turf or rice (see restrictions under "Applications to Waters Used for Irrigation"). The intakes must be shut off for a sufficient period of time to allow penoxsulam in treated water to decrease to 1 ppb or less at the intake before use can resume. Consult with state, federal, or local water authorities before making application near an active irrigation intake.
- Application to Exposed Sediments: GF-443 SC may be applied to exposed sediments of dewatered areas of aquatic sites. Upon inundation, all label restrictions apply to the use of water from these treated areas.

Spray Drift Management

Avoiding spray drift at the application site 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 is responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications:

- 1. 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.
- 2. Nozzle set up must use a coarse spray quality category per ASABE S-572 Standard.

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

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: For S-572 ASABE Standard compliance, see nozzle manufacturer catalogs, NAAA booklet, or USDA literature or website http://apmru.usda.gov/ for nozzle and application conditions. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Larger droplets reduce 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. Nozzles with higher rated flows produce larger droplets.
- **Pressure** Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets.
- Number of Nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the air stream
 produces larger droplets than other orientations and is the recommended practice.

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• **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.

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.

Application Height: Applications should not be made 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 downwind. Therefore, the applicator must compensate for this displacement by adjusting the path of the aircraft or boom on-off. Swath adjustment distance should increase, with increasing drift potential (higher wind, height, smaller drops, etc.).

Wind: Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 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. **Note:** State and local regulations with regard to minimum and maximum wind speeds during aerial application may be more restrictive. Aerial applicators should be familiar with these regulations.

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

Temperature Inversions: Applications should not occur during a local, low level temperature inversion because drift potential is high. Small droplets 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. 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: GF-443 SC should only be applied to the intended treatment area when the potential for drift to adjacent sensitive areas (e.g., residential areas, known habitat for threatened or endangered species, non-target vegetation) is minimal (e.g., when wind is blowing away from the sensitive areas). Refer to the section of this label on Wind under Spray Drift Management for more specific details.

Aquatic Plants Controlled

Performance and selectivity of GF-443 SC is dependent upon dosage, time of year, stage of growth, method of application, and water movement. The following categories — controlled and partially controlled — are provided to describe expected efficacy under ideal treatment conditions using typical treatment rates. Plants listed as partially controlled are less susceptible under most use conditions but may show herbicide stress or partial control during active treatment phase. Use of lower rates will increase selectivity on some species listed below. Consult with Dow AgroSciences prior to applying GF-443 SC to determine best treatment protocols for given target vegetation.

Vascular Aquatic Plants Controlled

Common Name

Scientific Name

Floating Plants

duckweed

multiple incl. Lemna spp. 1

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frog's bit

mosquito fern

Limnobium sponaia Azolla caroliniana

water fern

Salvinia minima and molesta

water hyacinth

Eichhornia crassipes

water lettuce

Pistia stratiotes

Emersed Plants

water pennywort

Hydrocotyle umbellata

Submersed Plants

baby's tears cabomba

Micranthemum spp.

egeria, Brazilian elodea

Cabomba caroliniana Egeria densa

Eurasian watermilfoil

Myriophyllum spicatum

hvdrilla

Hvdrilla verticillata

sago pondweed

Stuckenia pectinatus

Vascular Aquatic Plants Partially Controlled

Common Name

Scientific Name

Floating Plants

common watermeal

Wolffia columbiana

Emersed Plants

alligatorweed

Alternanthera philoxeroides

arrowhead

big floatingheart, banana lily

Sagittaria spp.

parrotfeather

Nymphoides aquatica Myriophyllum aquaticum

pickerelweed, lanceleaf

Pontederia spp.

soft-stem bulrush

Scirpus validus

smartweed

Polygonum spp.1

Submersed Plants

bacopa

Bacopa spp.1

Illinois pondweed

Potamogeton illinoensis1

southern naiad

Najas guadalupensis¹

spikerush

Eleocharis spp.

¹Susceptibility will likely vary between species within this genus

Mixing Instructions

In-Water Application to Submersed or Floating Aquatic Weeds

GF-443 SC can be applied undiluted or diluted with water for in-water applications. To dilute with water, it is recommended to fill spray tank to one-half full with water. Start agitation. Add correct quantity of GF-443 SC. Continue agitation while filling spray tank to required volume and during application.

Foliar Application to Floating and Emergent Weeds

Dilute GF-443 SC with water to achieve proper coverage of treated plants. To dilute with water, it is recommended to fill spray tank to one-half full with water. Start agitation. A surfactant must also be used with all post-emergent foliar applications of GF-443 SC. Use only surfactants that are approved or appropriate for aquatic use. Based upon surfactant label recommendations, add appropriate volume of surfactant when adding GF-443 SC to spray tank. Read and follow all use directions and precautions on aquatic surfactant label. After adding GF-443 SC and surfactant, continue agitation while filling spray tank to required volume and during application.



Exposed Sediment Application for Pre-Emergence Control of Aquatic Weeds

GF-443 SC must be diluted with water for pre-emergence, exposed sediment applications. To dilute with water, it is recommended to fill spray tank to one-half full with water. Start agitation. Add correct quantity of GF-443 SC. When using a surfactant, add appropriate volume of surfactant (based upon surfactant label recommendations) when adding GF-443 SC to spray tank. Read and follow all use directions and precautions on surfactant label. After adding GF-443 SC and any surfactant, continue agitation while filling spray tank to required volume and during application.

Tank Mixes with Other Aquatic Herbicides

GF-443 SC may be mixed with some approved herbicide products prior to treatment. Consult with Dow AgroSciences for latest recommendations prior to such use.

Application Methods

In-Water Application to Submersed or Floating Aquatic Weeds

GF-443 SC can be applied as an in-water application to control weeds such as hydrilla. Eruasian watermilfoil, water hyacinth, and other susceptible weed species.

Do not make in-water applications to areas subject to rapid dilution of treated water and/or where sufficient exposure with targeted vegetation can not be maintained, such as small spot or shoreline treatments in larger bodies of water.

Where greater plant selectivity is desired such as when controlling hydrilla and Eurasian watermilfoil or when targeting more susceptible species, choose an application rate lower in the rate range. Dow AgroSciences recommends contacting an aquatic specialist to determine when to choose application rates lower in the range to meet specific plant management goals.

Single In-Water Application to Treatment Zone: Where single applications to whole ponds, lakes, and reservoirs are desired, under typical treatment conditions GF-443 SC should be applied at a minimum effective concentration of 25 to 75 ppb. Choose an application rate to meet the aquatic plant management objectives. Application rates necessary to obtain these concentrations in treated water are shown below. It may be necessary to re-treat the body of water if mature or more tolerant vegetation is present in the target area or heavy rainfall has diluted the treatment concentration. If re-treatment is necessary, refer to the Split or Multiple In-Water Applications to Treatment Zone section of the label. Note: The concentration of any single application or sum of all applications must not exceed 150 ppb per annual growth cycle.

Split or Multiple In-Water Applications to Treatment Zone: Split or multiple applications of GF-443 SC may be desirable to ensure efficacy, maintain exposure, and enhance selectivity. Under typical treatment conditions or when targeting the most susceptible species, GF-443 SC should be applied initially at the minimum effective dose of 10 to 30 ppb to the treatment zone and, through the use of water analysis, add additional GF-443 SC to maintain the concentration to achieve specific plant management objectives. Re-treat the water to maintain a sufficient concentration for a minimum of 60 days or until satisfactory weed control is achieved. Higher concentrations and longer exposure times may be necessary when targeting less susceptible species, mature plants, and/or under conditions favorable for slower plant growth. Water analysis using ELISA is recommended to determine the actual concentration of GF-443 SC in the water over time. Note: The concentration of any single application or sum of all applications must not exceed 150 ppb per annual growth cycle.

Apply GF-443 SC to the treatment area at the appropriate rate to achieve target concentration. Define both size (in acres) and mean water depth (in feet) of the treatment zone prior to treatment. For each part per billion (ppb) of final concentration of active ingredient in the treatment zone, apply 0.174 fl oz per acre-foot of water. For example, for a 50 ppb treatment of 5 acres with a mean depth of 5 ft (25 acre-ft):



0.174 fl oz x 50 ppb x 25 acre ft = 217.5 fl oz (6.8 quarts or 1.7 gallon) GF-443 SC applied

.The rate needed to treat 1 surface acre of water should be selected according to the rate chart below.

	Target Concentration of Penoxsulam in Water (ppb)							
Average	5	10	20	25	50	75	100	150
Water Depth (ft)	F	oz (Qt) o	f GF-443	SC per St	urface Ac	re at Spe	cified Dep	th
1	0.9	1.7	3.5	4.4	8.7	13.1	17.4	26.1
	(0.03)	(0.05)	(0.11)	(0.14)	(0.27)	(0.41)	(0.54)	(0.82)
2	1.7	3.5	7.0	8.7	17.4	26.1	34.8	52.2
	(0.05)	(0.11)	(0.22)	(0.27)	(0.54)	(0.82)	(1.09)	(1.63)
3	2.6	5.2	10.4	13.1	26.1	39.2	52.2	78.3
	(0.08)	(0.16)	(0.33)	(0.41)	(0.82)	(1.22)	(1.63)	(2.45)
4	3.5	7.0	13.9	17.4	34.8	52.2	69.6	104.4
	(0.11)	(0.22)	(0.44)	(0.54)	(1.09)	(1.63)	(2.18)	(3.26)
5	4.4	8.7	17.4	21.8	43.5	65.3	87.0	130.5
	(0.14)	(0.27)	(0.54)	(0.68)	(1.36)	(2.04)	(2.72)	(4.08)
6	5.2	10.4	20.9	26.1	52.2	78.3	104.4	156.6
	(0.16)	(0.33)	(0.65)	(0.82)	(1.63)	(2.45)	(3.26)	(4.89)
7	6.1	12.2	24.4	30.5	60.9	91.4	121.8	182.7
	(0.19)	(0.38)	(0.76)	(0.95)	(1.90)	(2.86)	(3.81)	(5.71)
8	7.0	13.9	27.8	34.8	69.6	104.4	139.2	208.8
	(0.22)	(0.44)	(0.87)	(1.09)	(2.18)	(3.26)	(4.35)	(6.53)
9	7.8	15.7	31.3	39.2	78.3	117.5	156.4	234.9
	(0.24)	(0.49)	(0.98)	(1.22)	(2.45)	(3.67)	(4.89)	(7.34)
10	8.7	17.4	34.8	43.5	87.0	130.5	174.0	261.0
	(0.27)	(0.54)	(1.09)	(1.36)	(2.72)	(4.08)	(5.44)	(8.15)

For in-water applications, the maximum target concentration in any treated area is 150 ppb active ingredient per annual growth cycle.

Foliar Application to Floating and Emergent Weeds

GF-443 SC can be applied as a foliar application to control weeds such as water hyacinth, water lettuce, water pennywort and other susceptible floating and emergent species. Applications should be conducted in a manner to maximize spray interception by target weeds while minimizing the amount of overspray that inadvertently enters the water.

For all foliar applications, apply GF-443 SC at the rate of 2 to 5.6 fl oz per acre. Use of a surfactant is required for all foliar applications of GF-443 SC. Use only surfactants that are approved or appropriate for aquatic use. Use of organosilicone surfactants with GF-443 SC is not recommended. Refer to the surfactant label for use directions. Apply GF-443 SC to actively growing weeds only. Do not apply to emerged weeds that are not actively growing due to moisture stress or stress due to adverse weather conditions.

Aerial Foliar Application to Floating and Emergent Weeds

Apply GF-443 SC in a spray volume of 10 gallons per acre (gpa) or more when making a post-emergence application by air. Apply with coarse droplet category per S-572 ASABE standard; see NAAA, USDA or nozzle manufacturer guidelines. Follow guidelines in the Spray Drift Management and Aerial Drift Reduction Advisory sections to minimize potential drift to off-target vegetation. Aircraft should be patterned per Operation Safe/PAASS program for calibration and uniformity to provide sufficient coverage and control.

Boat or Ground Foliar Application to Floating and Emergent Weeds



When applying GF-443 SC by boat or with ground equipment to emergent or floating-leaved vegetation, use boom-type, backpack or hydraulic handgun equipment. Apply GF-443 SC in a sufficient spray volume (up to 100 gpa) to provide accurate and uniform distribution of spray particles over the treated vegetation while minimizing runoff. Use higher spray volumes for medium to high density vegetation. For boom spraying, use coarse or coarser nozzle spray quality per S-572 ASABE standard, see USDA literature or nozzle manufacturer guidelines. Follow nozzle manufacturer's recommendations for nozzle pressure, spacing and boom height to provide a uniform spray pattern. Follow appropriate spray drift management information where drift potential is a concern.

Exposed Sediment Application for Pre- and Postemergence Control of Aquatic Weeds

GF-443 SC may be applied to exposed sediments of dewatered aquatic sites for post- and pre-emergent control of susceptible weed species. Apply GF-443 SC at the rate of 5.6 to 11.2 fl oz per acre in a total spray volume of 20 to 100 gpa to the target area of exposed sediment using boom-type, backpack, or hydraulic handgun equipment for pre-emergence weed control. For boom spraying, use coarse or coarser nozzle spray quality per S-572 ASABE standard; see USDA literature or nozzle manufacturer guidelines. Follow nozzle manufacturer's recommendations for nozzle pressure, spacing and boom height to provide a uniform spray pattern. Follow appropriate spray drift management information where drift potential is a concern. Best treatment timing and rates will be based on various factors including current and historical rainfall, soil type, and timing of reflood, all of which should be discussed with Dow AgroSciences prior to treatment. A surfactant should also be used according to its label instructions. When present, do not apply to target emerged weeds that are not actively growing due to moisture stress or stress due to adverse weather conditions.

Refer to Applications to Waters Used for Irrigation section of this label for irrigation restrictions following exposed sediment applications. Consult with Dow AgroSciences for site specific recommendations for sampling water upon inundation.

Resistance Management

The mode of action of GF-443 SC is the inhibition of the acetolactate synthase (ALS) enzyme. Weed populations may develop biotypes that are resistant to different herbicides with the same mode of action. If herbicides with the same mode of action are used repeatedly at the same site, resistant biotypes may eventually dominate the weed population and may not be controlled by these products.

This product should be used as part of an Integrated Pest Management (IPM) program that may include biological, cultural, and chemical practices aimed at preventing economic and environmental pest damage. Application of this product should be based on appropriate IPM and resistance management strategies that delay or reduce the development of resistant weed biotypes. Such practices include, but are not limited to, tank mix combinations with dual-modes of action, herbicide rotation (i.e., use of alternate modes of action in subsequent treatment cycles), target plant susceptibility testing, GPS-assisted field survey and application methods, detailed in-treatment monitoring of herbicide concentrations to ensure proper dose and exposure period, and determination of optimal timing for treatment of target vegetation based on plant physiology and resource management goals for treated sites.

To delay development of herbicide resistance, the following practices are recommended:

- Treatment with GF-443 SC in successive years is not recommended unless conducted in combination with an herbicide with a different mode of action.
- Intensive target plant susceptibility testing in combination with rigorous and quantitative assessments of target plant distribution and health are strongly recommended before, during and after treatment.
- In conjunction with susceptibility testing, follow-up management of any surviving target plants found
 following treatment with GF-443 SC is recommended in the period immediately following treatment with
 GF-443 SC. This proactive follow-up management to contain or limit the spread of any potential
 resistant biotypes can include the use of contact herbicide or systemic herbicide with a different mode
 of action.

Stewardship Guidelines for Use

When making application to public waters, GF-443 SC should be applied by a Dow AgroSciences authorized applicator; this does not apply to applications made to private waters or to waters not used for irrigation. This product should be applied in compliance with best management practices (BMP) that include: site assessment, prescription, and implementation. BMP have been developed to maintain and/or monitor target concentrations over large areas, ensure accurate applications and maximize treatment performance, minimize resistance development, and to monitor residues in water used for potential irrigation. Dow AgroSciences technical specialists will work with authorized applicators and resource managers to ensure compatibility with potential uses of the water and management objectives. State or local water authorities should be consulted as appropriate before applying this product to obtain necessary permits and to comply with local posting and treatment notification requirements.

Most effective use of GF-443 SC, especially in larger treatment areas, requires knowledge of the concentration of GF-443 SC in treated water. This knowledge provides critical information for maximum performance, resistance management, irrigation restrictions, and overall product stewardship. This label describes both required and recommended uses of a chemical analysis for the active ingredient. Dow AgroSciences recommends the use of an Enzyme-Linked Immunoassay (ELISA) test for the determination of the active ingredient concentration in water. Contact Dow AgroSciences for the incorporation of this analysis in your treatment program.

Note: For all forms of GF-443 SC use, water sampling must be conducted as necessary to meet other label requirements for treated water use. Concentrations in food-crop irrigation water must be monitored until concentrations are 1 ppb or less before treated water may be used for irrigation.

In order to accurately determine the concentrations of GF-443 SC in treated water, recommendations for the minimum number of water sampling locations per treated area are provided below. The number of sampling locations will vary by site based on site morphology, bathymetry, inflows, presence of irrigation intakes, and other plant management objectives. Site locations for such sampling should be geographically referenced (i.e., GPS coordinates) and evenly distributed throughout the treated water body. Consult with Dow AgroSciences for site specific recommendations.

Depending upon the application method and site specific information, water sample(s) should be collected every 10 to 30 days. Sampling should be conducted more frequently as necessary to comply with any water use restrictions and to ensure efficacy.

Size of Treated Area (acres)	Number of Water Sample Locations		
<100	1		
101 – 1000	1 – 3		
1001 – 2500	3 – 5		
2501 – 5000	5 – 8		
5001 – 10,000	8 – 15		
>10,001	1 additional site for every 1000 acres		

Best practices for use of any aquatic herbicide demand the highest level of environmental assessment and stewardship. Treatment prescriptions should be tailored to meet site-specific resource management plans. Implementation of treatment programs should be conducted with equipment and protocols designed to increase treatment success through precision and quick reaction to changing environmental conditions.

Product specific stewardship guidelines for use of GF-443 SC are available from Dow AgroSciences. These guidelines are routinely updated to provide the latest best management practices for use of GF-

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443 SC, including assessment protocols, treatment techniques, and record keeping requirements. Contact Dow AgroSciences for further information.

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Warranty Disclaimer

Seller 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, SELLER MAKES NO OTHER EXPRESS NOR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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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.

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