

62719-603

04-24-2009

17



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

EPA Reg.

Number:

62719-
603

Date of Issuance:

APR 24 2009

Term of Issuance:

Conditional - Expires
June 30, 2013

Name of Pesticide Product:

GF-443 T&V HERBICIDE

Name and Address of Registrant (include ZIP Code):

Dow AgroScience LLC
9330 Zionsville Road
Indianapolis, IN 46268-1054

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 conditionally registered in accordance with FIFRA section 3(c)(7) provided you agree in writing to:

1. Submit the following outstanding product chemistry data requirement by the expiration date of this letter: one year storage stability and corrosion characteristics studies, Guidelines 830.6317 and 830.6320. The results for the storage stability and corrosion characteristics studies being generated for product with EPA Reg. No. 62719-514 can be used to support this product (EPA Reg. No. 62719-603).

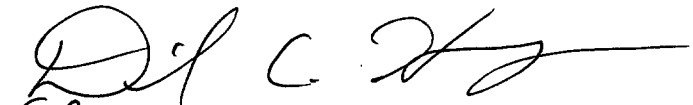
2. Before shipment, add the EPA Registration No. 62719-603 and the EPA Establishment Number to product label.

3. Submit one copy of your final printed labeling before you release the product for shipment.

A stamped copy of labeling with comments is enclosed for your records. If you have any questions, please contact Phil Errico at 703-305-6663.

Enclosure: Stamped Conditionally Registered Product Label with EPA Reg. No. 62719-603.

Signature of Approving Official:



For:
Joanne I. Miller, Product Manager (23)
Herbicide Branch, Registration Division
(7505P)

Date:

APR 24 2009

E9A / GF-443 T&V / Prop Sec 3 / 04-22-09
file: GF-443 T&V-ANG 22Apr09d.doc

GF-443 T&V

EPA Reg. No. 62719-ANG

Registration Notes:

Proposed Section 3 label.

ACCEPTED
with COMMENTS
In EPA Letter Dated
APR 24 2009

4
17

(Base label):

GF-443 T&V

Herbicide

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended for the pesticide
registered under EPA Reg. No.
62719-603



For preemergence and postemergence control of annual broadleaf weeds in bearing and non-bearing tree nuts [almond, beech nut, black walnut, Brazil nut, butternut, cashew, chestnut, chinquapin, English walnut, filbert (hazelnut), hickory nut, macadamia nut (bush nut), pecan, pistachio] and grapevines

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%
Other Ingredients	78.3%
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)

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

5
17

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 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 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)

6
17**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-ANG

EPA Est. _____

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

Net Contents _____

7
17

(Label booklet cover):

GF-443 T&V

Herbicide

For preemergence and postemergence control of annual broadleaf weeds in bearing and non-bearing tree nuts [almond, beech nut, black walnut, Brazil nut, butternut, cashew, chestnut, chinquapin, English walnut, filbert (hazelnut), hickory nut, macadamia nut (bush nut), pecan, pistachio] and grapevines

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%
Other Ingredients	78.3%
Total	100.0%

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.

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-ANG

EPA Est. _____

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

Net Contents _____

8
17

(Page 1 through end):

Precautionary Statements

Hazards to Humans and Domestic Animals**CAUTION****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.

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,

9
17

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 dusts have settled.

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 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 containers 5 gallons or larger:

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.

12
17**Nonrefillable containers 5 gallons or larger:****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.

General Information

GF-443 T&V herbicide may be applied for preemergence and postemergence weed control of certain broadleaf and grass weeds in non-bearing and bearing tree nuts [almond, beech nut, black walnut, Brazil nut, butternut, cashew, chestnut, chinquapin, English walnut, filbert (hazelnut), hickory nut, macadamia nut (bush nut), pecan, pistachio] and grapevine crops as indicated by this label. Apply GF-443 T&V in early to late winter, in early spring, or anytime prior to germination of targeted weeds as per labeled use directions. The best weed control is obtained by application to weeds either preemergence or early postemergence when weeds are small and actively growing. Any cultural practices, cultivation, or disturbance of the soil surface after application will decrease the weed control provided by GF-443 T&V. Observe all use directions as provided in the General Use Precautions and Restrictions section of the label. When tank mixing GF-443 T&V with other registered products, read and carefully follow all applicable use directions, precautions and limitations on the respective product labels.

General Use Precautions and Restrictions

GF-443 T&V controls susceptible weeds germinating from seed. For postemergence weed control, GF-443 T&V should be tank mixed with an approved labeled adjuvant or postemergence herbicide (such as glyphosate, glufosinate, or paraquat) for the best control of emerged weeds. GF-443 T&V should be tank mixed with approved preemergence herbicides, such as oxyfluorfen (GoalTender[®] herbicide or Goal[®] herbicides), isoxaben (Gallery[®] specialty herbicide) (non-bearing tree nuts and grapevines), pendimethalin (Prowl H20), oryzalin (Surflan), or flumioxazin (Chateau) for the best preemergence control of susceptible weeds and to broaden the spectrum of overall weed control. GF-443 T&V is stable on the soil surface for up to 14 days, but must be incorporated by moisture to provide effective preemergence control of susceptible weeds. A single rainfall or sprinkler irrigation of 0.5 inches or more, or flood irrigation within 14 days after application, is necessary to activate GF-443 T&V.

Read and observe all label directions before using. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product labels. In interpreting all labels for the tank mixture, the most restrictive labels must apply.

- For the best weed control, apply GF-443 T&V at 1 to 2 fl oz per acre during the winter dormant period following final harvest up to March 15 in tree nut and grapevine crops. A sequential application of 1 fl oz per acre can be applied up to 60 days prior to harvest. There must be a minimum of 30 days between sequential applications.
- GF-443 T&V can be applied as an early postemergence application to weeds. GF-443 T&V must be applied with an approved adjuvant. For best control of emerged grass and broadleaf weeds, apply GF-443 T&V tank mixed with an approved postemergence herbicide.
- Use GF-443 T&V only for listed purposes and at specified rates.
- Do not apply more than 2 fl oz of GF-443 T&V per acre during a single application.

11
17

- Do not apply more than 3 fl oz of GF-443 T&V per acre during a single growing season (from harvest to harvest).
- Do not apply GF-443 T&V to tree nut crops established less than 9 months after transplanting. Apply only to tree nut crops in good health and vigor. Use trunk guards to protect plants until adequate bark has developed. Do not apply after flowering unless using a hooded/shielded sprayer.
- Do not apply GF-443 T&V to grapevines established less than 9 months after transplanting. Do not apply to grapevines established less than 3 years unless vines are on a trellis wire a minimum of 3 feet above the soil surface. Use trunk guards to protect plants until adequate bark has developed. Apply GF-443 T&V only to grapevine crops in good health and vigor. Do not apply after bloom unless using a hooded/shielded sprayer.
- Do not apply GF-443 T&V to grapevines that are not staked or trellised unless grapevines are free-standing.
- Direct spray of GF-443 T&V toward the base of trees or grapevines. Do not apply GF-443 SC T&V as an over-the top application. Avoid direct foliage contact.
- GF-443 T&V is phytotoxic to plant foliage. Do not allow direct or indirect applications of GF-443 T&V to contact any green foliage or green bark or injury will occur.
- **GF-443 T&V can be applied during the period following completion of final harvest up to 60 days before harvest. There must be a minimum of 30 days between sequential applications.**
- Do not apply until soil has been settled by packing and irrigation or rainfall and no cracks are present.
- Where rate ranges are given, the lower rates are recommended for coarse textured soils, lighter weed infestations and reduced lengths of residual weed control. It is recommended to use a higher rate in the rate range for medium to fine textured soils, heavy weed infestations, or extended residual weed control.
- Apply GF-443 T&V only with ground application equipment.
- Do not apply when weather conditions favor drift. Avoid drift to all non-target crops and areas.
- **Chemigation:** Do not apply GF-443 T&V through any type of irrigation system.
- Thoroughly flush spray equipment (tank, pump, hoses and boom) with clean water before and after each use.
- Do not contaminate irrigation water or water used for domestic purposes.
- Do not use any plants treated with GF-443 T&V for feed or forage.
- Do not apply to frozen soil or snow covered soil.
- Use untreated soil as fill when transplanting new trees and grapevines into an area previously treated with GF-443 T&V.

Grapevines – Winter Dormant Applications

GF-443 T&V will provide postemergence burndown and residual weed control of the weeds listed below. For short-term (2 to 3 months) residual weed control, apply GF-443 T&V at 1 fl oz per acre in combination with glyphosate, glufosinate or paraquat. Broader spectrum weed control can be achieved by using appropriate tank mix partners such as oxyfluorfen (GoalTender or Goal 2XL), isoxaben (Gallery) (non-bearing grapevines), pendimethalin (Prowl H20), oryzalin (Surflan), or flumioxazin (Chateau) for the best preemergence control of susceptible weeds. For longer term (4 to 6 months) residual weed control, apply GF-443 T&V at 2 fl oz per acre in combination with glyphosate, glufosinate or paraquat. Broader spectrum weed control can be achieved by using appropriate tank mix partners such as oxyfluorfen (GoalTender or Goal 2XL), isoxaben (Gallery) (non-bearing grapevines), pendimethalin (Prowl H20), oryzalin (Surflan), or flumioxazin (Chateau) for the best preemergence control of susceptible weeds. For best weed control, apply GF-443 T&V during the winter dormant period following final harvest up to March 15. If needed, a sequential application of GF-443 T&V at 1 fl oz per acre, applied with an appropriate postemergence tank mix partner, can be applied in the spring up to 60 days prior to harvest. When tank mixing GF-443 T&V with other registered products, read and carefully follow all applicable use directions, precautions, and limitations on the respective product labels.

Weeds Controlled

Common Name
burclover, California

Scientific Name
Medicago polymorpha

chickweed, common	<i>Stellaria media</i>
clover, white	<i>Trifolium repens</i>
cudweed, purple	<i>Gnaphalium purpureum</i>
dandelion	<i>Taraxacum officinale</i>
evening-primrose, cutleaf	<i>Oenothera laciniata</i>
fiddleneck, coast	<i>Amsinckia menziesii</i> var. <i>intermedia</i>
fleabane, hairy	<i>Conyza bonariensis</i>
fleabane, dwarf	<i>Conyza ramosissima</i>
groundsel, common	<i>Senecio vulgaris</i>
henbit	<i>Lamium amplexicaule</i>
lambsquarters, common	<i>Chenopodium album</i>
lettuce, prickly	<i>Lactuca serriola</i>
marestail/horseweed	<i>Conyza canadensis</i>
mustard, black	<i>Brassica nigra</i>
mustard, Indian	<i>Brassica juncea</i>
mustard, wild	<i>Sinapis arvensis</i>
nightshade, black	<i>Solanum nigrum</i>
pigweed species	<i>Amaranthus</i> spp.
pineappleweed	<i>Matricaria discoidea</i>
purslane, common	<i>Portulaca oleracea</i>
radish, wild	<i>Raphanus raphanistrum</i>
redmaids	<i>Calandrinia ciliata</i>
rocket, London	<i>Sisymbrium irio</i>
rockpurslane, redmaids	<i>Calandrinia ciliata</i> var. <i>menziesii</i>
shepherdspurse	<i>Capsella bursa-pastoris</i>
sowthistle, annual	<i>Sonchus oleraceus</i>

Weeds Suppressed

Common Name	Scientific Name
barnyardgrass	<i>Echinochloa crus-galli</i>
filaree, redstem	<i>Erodium cicutarium</i>
knotweed	<i>Polygonum aviculare</i>
mallow, common	<i>Malva neglecta</i>
mallow, little	<i>Malva parviflora</i>
spurge, prostrate	<i>Chamaesyce prostrata</i>
spurge, spotted	<i>Chamaesyce maculata</i>

Tree Nuts [almond, beech nut, black walnut, Brazil nut, butternut, cashew, chestnut, chinquapin, English walnut, filbert (hazelnut), hickory nut, macadamia nut (bush nut), pecan, pistachio] – Winter Dormant Applications

GF-443 T&V will provide postemergence burndown and residual weed control of the weeds listed below. For short-term (2 to 3 months) residual weed control, apply GF-443 T&V at 1 fl oz per acre in combination with glyphosate, glufosinate or paraquat. Broader spectrum weed control can be achieved by using appropriate tank mix partners such as oxyfluorfen (GoalTender or Goal 2XL), isoxaben (Gallery) (non-bearing tree nuts), pendimethalin (Prowl H20), oryzalin (Surflan), or flumioxazin (Chateau) for the best preemergence control of susceptible weeds. For longer term (4 to 6 months) residual weed control, apply GF-443 T&V at 2 fl oz per acre in combination with glyphosate, glufosinate or paraquat. Broader spectrum weed control can be achieved by using appropriate tank mix partners such as oxyfluorfen (GoalTender or Goal 2XL), isoxaben (Gallery) (non-bearing tree nuts), pendimethalin (Prowl H20), oryzalin (Surflan), or flumioxazin (Chateau) for the best preemergence control of susceptible weeds. For best weed control, apply GF-443 T&V during the winter dormant period following final harvest up to March 15. If needed, a sequential application of GF-443 T&V at 1 fl oz per acre, applied with an appropriate postemergence tank mix partner, can be applied in the spring up to 60 days prior to harvest. When tank mixing GF-443 T&V with other registered products, read and carefully follow all applicable use directions, precautions, and limitations on the respective product labels.

Weeds Controlled**Common Name**

burclover, California
 chickweed, common
 clover, white
 cudweed, purple
 dandelion
 evening-primrose, cutleaf
 fiddleneck, coast
 fleabane, hairy
 fleabane, dwarf
 groundsel, common
 henbit
 lambsquarters, common
 lettuce, prickly
 marestalk/horseweed
 mustard, black
 mustard, Indian
 mustard, wild
 nightshade, black
 pigweed species
 pineappleweed
 purslane, common
 radish, wild
 redmaids
 rocket, London
 shepherdspurse
 sowthistle, annual

Scientific Name

Medicago polymorpha
Stellaria media
Trifolium repens
Gnaphalium purpureum
Taraxacum officinale
Oenothera laciniata
Amsinckia menziesii var. *intermedia*
Conyza bonariensis
Conyza ramosissima
Senecio vulgaris
Lamium amplexicaule
Chenopodium album
Lactuca serriola
Conyza canadensis
Brassica nigra
Brassica juncea
Sinapis arvensis
Solanum nigrum
Amaranthus spp.
Matricaria discoidea
Portulaca oleracea
Raphanus raphanistrum
Calandrinia ciliata
Sisymbrium irio
Capsella bursa-pastoris
Sonchus oleraceus

Weeds Suppressed**Common Name**

barnyardgrass
 filaree, redstem
 knotweed
 mallow, common
 mallow, little
 spurge, prostrate
 spurge, spotted

Scientific Name

Echinochloa crus-galli
Erodium cicutarium
Polygonum aviculare
Malva neglecta
Malva parviflora
Chamaesyce prostrata
Chamaesyce maculata

Mixing Directions**GF-443 T&V - Alone**

Fill the spray tank at least one-third full of clean water. With the pump and agitator running, add the specified amount of herbicides to the spray tank. The order of addition to the spray tank should be wettable powders first, flowables second and liquids last. Complete filling of the spray tank with water. Maintain agitation until spraying is completed.

Spray equipment should be calibrated carefully before each use. Dosages listed on this label are for broadcast application. GF-443 T&V should be applied as a uniform broadcast application to the crop floor or as a uniform band at the base of the trunk. For banded application, the amount of GF-443 T&V used per acre should be reduced according to the following formula:

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

14
17**Tank Mix Precautions:**

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

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

GF-443 T&V – Tank Mixes

For broader spectrum postemergence control of grass and broadleaf weeds, a tank mixture of GF-443 T&V with either glyphosate, glufosinate or paraquat should be used. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product labels. In interpreting all labels for the tank mixture, the most restrictive labels must apply.

For preemergence control of susceptible grass and broadleaf weeds in tree nut or vine plantings, a tank mixture of GF-443 T&V with oxyfluorfen (GoalTender, Goal 2XL), isoxaben (Gallery) (non-bearing tree nuts and grapevines), diuron (Karmex), pronamide (Kerb® herbicide), simazine, norflurazon (Solicam), flumioxazin (Chateau), oryzalin (Surflan) or pendimethalin (Prowl) can be applied. Contact postemergence herbicides such as glyphosate, glufosinate or paraquat should also be added to the tank mixture. Check product labels of the above tank mix partners to determine suitability, restrictions and use rates. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product labels. In interpreting all labels for the tank mixture, the most restrictive labels must apply.

Tank Mix Compatibility Testing: When tank mixing GF-443 T&V 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 T&V 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.

Preemergence Weed Control

Apply the specified rate of GF-443 T&V in a broadcast spray volume of water per acre using calibrated spray equipment capable of uniform application to the soil surface. Seedling weeds are controlled as they come in contact with the soil applied herbicide during emergence. Preemergence weed control is most effective when GF-443 T&V is applied to soil surfaces that are clean (free of crop or weed residues or clippings) and weed free. Prior to application, weed or crop residues should be removed by thorough incorporation into the soil using tillage equipment or by removing them from the area to be treated. At least 0.5 inch of irrigation or rainfall is required to activate GF-443 T&V and should occur within two

15
17

weeks after application. For optimum results, GF-443 T&V should be applied to prepared beds or soil surfaces that will be left undisturbed during the time period for which weed control is desired. Cultural practices that disturb or redistribute surface soil following treatment with GF-443 T&V such as cutting water furrows will reduce weed control effectiveness. Broader spectrum weed control can be achieved by using appropriate tank mix partners such as oxyfluorfen (GoalTender or Goal 2XL), isoxaben (Gallery) (non-bearing tree nuts and grapevines), pendimethalin (Prowl H2O), oryzalin (Surflan), or flumioxazin (Chateau) for the best preemergence control of susceptible weeds.

Preemergence Application Rates and Rate Ranges: Where a rate range is given, use a lower rate in the rate range on coarse texture soils with light weed infestations and for reduced lengths of residual weed control. Use a higher rate in the rate range on medium to fine texture soils, heavy weed infestations, or for extended residual preemergence weed control.

Postemergence Weed Control

Apply the specified rate of GF-443 T&V in a broadcast spray volume of 20 gallons or more of water per acre (a minimum of 10 gallons if applying GF-443 T&V in tank mix with glyphosate). Complete and uniform coverage of weed foliage is essential for optimum postemergence control. Increase the spray volume to ensure complete and uniform coverage as weed height and density increases or in the presence of heavy trash (weed or crop residue). Postemergence applications of GF-443 T&V are most effective when made to weeds at the seedling stage. Applications made later than the 4-inch or 4 leaf stage may result in partial control or suppression.

The addition of 1 quart per acre crop oil concentrate or methylated seed oil, or 0.25% v/v (2 pints per 100 gallons of spray) of an 80% active nonionic surfactant labeled for application to growing crops, is required for effective postemergence herbicidal control of susceptible emerged weeds.

For control of emerged grass and broadleaf weeds, or susceptible weeds greater than 4-inch or 4 leaf stage, postemergence applications of GF-443 T&V should be mixed with a broad spectrum, postemergence foliar herbicide. Such products include glyphosate, glufosinate and paraquat type products.

Postemergence Application Rates: Where a rate range is given, use a higher rate in the rate range for heavy weed infestations, weeds in advanced stages of growth, or for extended residual preemergence weed control following control of existing emerged weeds.

Application Instructions

Standard Volume Broadcast Application

Apply in a spray volume of 20 gpa or more (a minimum of 10 gallons if applying GF-443 T&V in tank mix with glyphosate). Use a higher application volume when complete and uniform application must be ensured. Use low pressure and ground application equipment capable of delivering a uniform spray droplet. To improve foliar spray coverage, the addition of a crop oil concentrate or methylated seed oil (MSO) at the rate of 1 quart per acre or 0.25% v/v (2 pints per 100 gallons of spray) of an 80% active nonionic surfactant labeled for application to growing crops is required.

Calibrate application equipment prior to use according to manufacturer's directions. Avoid skips or overlaps as poor weed control or plant injury may occur.

When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product labels. In interpreting all labels for the tank mixture, the most restrictive labels must apply.

Rates and Timing of Application

For best weed control, apply GF-443 T&V at 1 to 2 fl oz per acre during the winter dormant period following final harvest up to March 15 in tree nut [almond, beech nut, black walnut, Brazil nut, butternut,

16
17

cashew, chestnut, chinquapin, English walnut, filbert (hazelnut), hickory nut, macadamia nut (bush nut), pecan, pistachio] and grapevine crops. A sequential application of 1 fl oz per acre can be applied up to 60 days prior to harvest. See specific crop use directions.

If GF-443 T&V is not applied during the winter dormant period, GF-443 T&V can be applied at 1 to 2 fl oz per acre as a non-dormant application applied up to 60 days prior to harvest. Apply no more than 3 fl oz per acre of GF-443 T&V per growing season. Allow a minimum of 30 days between sequential applications of GF-443 T&V. GF-443 T&V can be applied up to 60 days prior to harvest.

The best weed control results are obtained when GF-443 T&V is applied preemergence to susceptible weeds or postemergence 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.

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, 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.

Weed Resistance and Integrated Pest Management

The mode of action of GF-443 T&V 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 in the same field, resistant biotypes may eventually dominate the weed population and may not be controlled by these products. Other resistance mechanisms, such as enhanced metabolism, may also exist and may cause reduced weed control.

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 pest damage. Application of this product should be based upon appropriate IPM and resistance management strategies and practices that delay or reduce the development of resistant weed biotypes. Such practices include field scouting, mechanical weed control, tank mixes of multiple herbicide products with multiple modes of action, correct weed pest identification, following rotational practices outlined on pesticide labels, and treating when target weed populations are at the correct stage and economic thresholds for control. GF-443 T&V can be applied in two applications per season (from harvest to harvest).

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

- Always use at least the minimum rate specified by the label and observe all use rate instructions.
- Herbicides with the same mode of action should not be used in sequential applications unless tank mixed with an alternative mode of action product that is effective on the target weeds.
- ALS herbicides should not be used in consecutive years unless alternated or tank mixed with non-ALS herbicides.
- Herbicides should be used based upon an IPM program.
- Monitor treated areas and control escaped weeds.
- Contact local extension or crop advisor for IPM and resistance management information.

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.

17
17

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.

®™ Trademark of Dow AgroSciences LLC
EPA accepted ___/___/___