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

JAN 29 2004

OFFICE OF  
PREVENTION, PESTICIDES  
AND  
TOXIC SUBSTANCES

Mr. Rafael Herrera  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268

Dear Mr. Herrera:

**SUBJECT: New Supplemental Label To Add New Uses: Sorghum,  
Sweet Corn, And Field Corn  
Starane\*  
EPA Registration No. 62719-286  
Your Amendment Application Submission Dated  
October 8, 2002**

The supplemental labelings, 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. Submit, within one (1) year of the date of this Agency correspondence, a 28-day inhalation study.
2. Provide the required data to satisfy the conditional data requirements for the following use:
  - i. Sweet Corn:
    - (1) Submit, within three (3) years of the date of this Agency correspondence, four (4) additional field trials conducted in Regions III (1 trial), V (1 trial), XI (1 trial), and XII (1 trial). Residue analysis of sweet corn field trial samples should avoid using the DowElanco Method ACR 90.8.
    - (2) Submit storage stability data to support the sweet corn field trial data.

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At your next label printing, or within one year, whichever comes first, you must incorporate this supplemental labeling into the main product labeling. A stamped copy of the label is enclosed for your records. Please submit one copy of your final printed label before you release the product for shipment. If you have any concerns or questions regarding this letter, please call Marcel Howard at (703)305-6784.

Sincerely yours,

JSI

Joanne I. Miller  
Product Manger (23)  
Herbicide Branch  
Registration Division (7505C)

Enclosures

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# Supplemental Labeling



Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268-1054 USA

## Starane\*

EPA Reg. No. 62719-286

### Weed Control in Sweet Corn

#### ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for Starane before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of Starane according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Starane.

#### Directions for Use

**General:** Apply Starane\* herbicide as a broadcast post emergence treatment using ground equipment or by air. Starane may also be applied as a pre plant treatment for control of **emerged** volunteer potato (refer to "Special Directions for Control of Volunteer Potato" below). See product label for Starane for detailed information on application timing, effect of temperature on herbicidal activity, application rates, spray coverage and instructions for spot application. Starane may be applied in tank mix combination with labeled rates of other registered herbicides. Read and follow all label directions, including applicable use directions, precautions and limitations on each product label.

#### Weeds Controlled or Suppressed

(Numbers in parentheses (-) refer to footnotes below.)

Key Weeds Controlled (1)	Key Weeds Suppressed(3)	Application Rate
catchweed bedstraw (cleavers) chickweed cocklebur common purslane common ragweed hedge bindweed hemp dogbane jimsonweed kochia (2) momingglory puncturevine sunflower velvetleaf Venice mallow	field bindweed field pennycress marshelder mustard nightshade species Russian thistle volunteer potato (4) wild buckwheat	2/3 pt/acre

- (1) See "Weeds Controlled or Suppressed" section in product label for a complete listing.
- (2) Includes herbicide tolerant or resistant biotypes.
- (3) Suppression is expressed as a reduction in weed competition (reduced population or vigor) as compared to untreated areas. The degree of weed control and duration of effect may vary with weed size, density, application rate, coverage, and growing conditions before, during and after treatment.
- (4) See "Special Directions for Control or Suppression of Volunteer Potato" below.

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

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**Application Timing:** Apply as a broadcast or band treatment to sweet corn up to, and including, 4 fully exposed leaf collars (V4 growth stage). Do not broadcast apply to sweet corn with 5 fully exposed leaf collars (V5 growth stage). Applications to sweet corn beyond the V4 growth stage should be made as a directed spray using drop nozzles (see crop tolerance precaution below). Apply when broadleaf weeds are actively growing, but before weeds are 8 inches tall. If wild buckwheat is present, apply before vining stage of growth. Only weeds emerged at the time of application will be controlled or suppressed.

**Special Directions for Control or Suppression of Volunteer Potato:**

- **Preplant Application (Suppression):** Apply 2/3 pint per acre prior to planting corn when the majority of volunteer potato plants are 4 to 8 inches tall. For best results, leave soil undisturbed and plant sweet corn two weeks following application.
- **Sequential Applications (Control):** To control heavy populations of volunteer potato, a preplant application may be followed by a postemergence application of 2/3 pint per acre. Do not exceed two applications per season.
- **Postemergence Application (Suppression):** Apply 2/3 pint per acre when the majority of volunteer potato plants are 4 to 8 inches tall.

**Restrictions:**

- Do not make more than two applications or apply more than 1 1/3 pint per acre per crop season
- **Preharvest Interval:** Do not allow livestock to graze or harvest forage from treated areas within 31 days of application. Do not apply less than 31 days before harvesting ears.

**Crop Tolerance Precaution:** Not all sweet corn hybrids have been screened for tolerance to Starane. Crop injury (stem curvature, stunting, brace root injury) may occur with some hybrids or lines when Starane is applied as a broadcast treatment. Take particular care to manage for environmental conditions such as unfavorable combinations of temperature and humidity. Hybrids or lines that are susceptible to phenoxy injury may also be susceptible to injury from Starane.

**Tank Mixing:** Starane may be applied alone or in tank mix combination with other herbicides registered for post emergence application in sweet corn unless tank mixing is specifically prohibited by the label of the tank mix product. When Starane is tank mixed with a companion herbicide, follow all applicable use directions, precautions, restrictions, and limitations listed on the manufacturer's label.

**Use of Spray Adjuvants in Tank Mixes:** The addition of a spray adjuvant is not recommended when applying Starane alone. Use of an adjuvant may increase effectiveness on weeds but may reduce selectivity to the crop, particularly under conditions of plant stress such as drought or cold temperatures. If an adjuvant is added to the spray mixture as a requirement of a tank mix partner, follow all manufacturer guidelines. Do not apply Starane in combination with crop oil concentrates, petroleum-based oils or methylated seed oils unless the risk of injury is acceptable.

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R-075-002

EPA-accepted:   /  /  

Initial printing.

# Supplemental Labeling



Dow AgroSciences LLC      9330 Zionsville Road      Indianapolis, IN 46268-1054 USA

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## Starane\*

EPA Reg. No. 62719-286

### Weed Control in Field Corn

#### ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for Starane before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of Starane according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Starane.

#### Directions for Use

**General:** Apply Starane\* herbicide as a broadcast post emergence treatment using ground equipment or by air. Starane may also be applied as a pre plant treatment for control of **emerged** volunteer potato (refer to "Special Directions for Control of Volunteer Potato" below). See product label for Starane for detailed information on application timing, effect of temperature on herbicidal activity, application rates, spray coverage and instructions for spot application. Starane may be applied in tank mix combination with labeled rates of other registered herbicides. Read and follow all label directions, including applicable use directions, precautions and limitations on each product label.

#### Weeds Controlled or Suppressed

(Numbers in parentheses (-) refer to footnotes below.)

Key Weeds Controlled (1)	Key Weeds Suppressed(3)	Application Rate
catchweed bedstraw (cleavers)	field bindweed	2/3 pt/acre
chickweed	field pennycress	
cocklebur	marshelder	
common purslane	mustard	
common ragweed	nightshade species	
hedge bindweed	Russian thistle	
hemp dogbane	volunteer potato (4)	
jimsonweed	wild buckwheat	
kochia (2)		
momingglory		
puncturevine		
sunflower		
velvetleaf		
Venice mallow		

- (1) See "Weeds Controlled or Suppressed" section in product label for a complete listing.
- (2) Includes herbicide tolerant or resistant biotypes.
- (3) Suppression is expressed as a reduction in weed competition (reduced population or vigor) as compared to untreated areas. The degree of weed control and duration of effect may vary with weed size, density, application rate, coverage, and growing conditions before, during and after treatment.
- (4) See "Special Directions for Control or Suppression of Volunteer Potato" below.

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JAN 29 2004

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

62719-286

**Application Timing:** Apply as a broadcast or band treatment to field corn up to, and including, 5 fully exposed leaf collars (V5 growth stage). Do not broadcast apply to field corn with 6 fully exposed leaf collars (V6 growth stage). Applications to field corn beyond the V5 growth stage should be made as a directed spray using drop nozzles (see crop safety precaution below). Apply when broadleaf weeds are actively growing, but before weeds are 8 inches tall. If wild buckwheat is present, apply before vining stage of growth. Only weeds emerged at the time of application will be controlled or suppressed.

**Special Directions for Control or Suppression of Volunteer Potato:**

- **Preplant Application (Suppression):** Apply 2/3 pint per acre prior to planting corn when the majority of volunteer potato plants are 4 to 8 inches tall. For best results, leave soil undisturbed and plant field corn two weeks following application.
- **Sequential Applications (Control):** To control heavy populations of volunteer potato, a preplant application may be followed by a postemergence application of 2/3 pint per acre. Do not exceed two applications per season.
- **Postemergence Application (Suppression):** Apply 2/3 pint per acre when the majority of volunteer potato plants are 4 to 8 inches tall.

**Restrictions:**

- Do not make more than two applications or apply more than 1 1/3 pint per acre per crop season.
- **Preharvest Interval:** Do not allow livestock to graze or harvest forage from treated areas within 47 days of application. Do not apply less than 90 days before harvest of grain and stover.

**Crop Tolerance Precaution:** Crop injury (stem curvature, stunting, or brace root injury) may occur with some corn hybrids or lines when Starane is applied as a broadcast treatment. Hybrids or lines that are susceptible to phenoxy injury may also be susceptible to injury from Starane.

**Tank Mixing:** Starane may be applied alone or in tank mix combination with other herbicides registered for post emergence application in field corn unless tank mixing with Starane is specifically prohibited by the label of the tank mix product. When Starane is tank mixed with a companion herbicide, follow all applicable use directions, precautions, restrictions, and limitations listed on the manufacturer's label. If an adjuvant is added to the spray mixture as a requirement of the tank mix partner, follow label directions for both the tank mix partner and the adjuvant product.

**Adjuvants:** Use of a high quality adjuvant is recommended for improved weed control, especially in hot, dry conditions.

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# Supplemental Labeling



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Dow AgroSciences LLC

9330 Zionsville Road

Indianapolis, IN 46268-1054 USA

## Starane\*

EPA Reg. No. 62719-286

### Weed Control in Grain Sorghum (Milo)

#### ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for Starane before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of Starane according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Starane.

#### Directions for Use

**General:** Apply Starane\* herbicide as a broadcast treatment using ground equipment or by air. See product label for Starane for detailed information on application timing, effect of temperature on herbicidal activity, application rates, spray coverage and instructions for spot application.

Starane may be applied in tank mix combination with labeled rates of other herbicides such as atrazine. Read and follow all label directions, including applicable use directions, application timing, precautions and limitations on each product label.

#### Weeds Controlled or Suppressed

(Numbers in parentheses (-) refer to footnotes below.)

Key Weeds Controlled (1)	Key Weeds Suppressed(3)	Application Rate
cocklebur common ragweed hemp dogbane hedge bindweed kochia (2) morningglory puncturevine sunflower velvetleaf Venice mallow	field bindweed field pennycress mustard nightshade species Russian thistle wild buckwheat	2/3 pt/acre

- (1) See "Weeds Controlled or Suppressed" section in product label for a complete listing.
- (2) Includes herbicide tolerant or resistant biotypes.
- (3) Suppression is expressed as a reduction in weed competition (reduced population or vigor) as compared to untreated areas. The degree of weed control and duration of effect may vary with weed size, density, application rate, coverage, and growing conditions before, during and after treatment.

ACCEPTED  
JAN 29 2004

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

62719-286

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**Application Timing**

- **Pre emergence:** For no-till or burndown applications, apply to emerged weeds after planting, but prior to grain sorghum emergence.
- **Post emergence:** Starane may be broadcast applied from the 3-leaf growth stage of grain sorghum through the 7-leaf stage. Use drop nozzles and directed spray from the 8-leaf stage to boot stage. Drop nozzles should direct the spray toward the soil surface to avoid contact with grain sorghum foliage and reduce the potential for crop injury. Do not apply after the boot stage.
- For both pre emergence and post emergence applications, apply when weeds are actively growing, but before weeds are 8 inches tall and before wild buckwheat is vining. Only weeds that have emerged at the time of application will be controlled.
- To control heavy weed populations, a pre emergence application may be followed by a post emergent application. Do not exceed two applications per season.

**Restrictions:**

- Do not make more than two applications or apply more than 1 1/3 pint per acre per crop season.
- **Pre harvest Interval:** Do not allow livestock to graze or harvest forage within 40 days of application. Do not apply within 70 days of harvesting grain or stover.

**Tank Mixing:** Starane may be applied alone or in tank mix combination with other herbicides registered for post emergence application in grain sorghum unless tank mixing is specifically prohibited by the label of the tank mix product. When Starane is tank mixed with a companion herbicide, follow applicable use directions, precautions, restrictions, and limitations listed on the manufacturer's label. Do not apply in combination with Ally herbicide.

**Adjuvants:** Use of a high quality adjuvant is recommended for improved weed control, especially under hot, dry conditions.

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