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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

JAN 22 2002

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Sterett Robertson  
U.S. Regulatory Manager  
Regulatory Success-Americas  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268

Subject: Amendment - Final Supplemental Labeling for Foliar Insect Control in Cranberries, Sugar Beet, Garden Beet, Asparagus, Tree Nuts, Artichokes, and Bushberries  
SpinTor 2SC (A.I. SPINOSAD)  
EPA Registration No. 62719-294  
Your Submissions Dated October 6, 2000, November 7, 2000, December 12, 2000, January 24, 2001, and March 2, 2001

Dear Mr. Robertson:

The amendments referred to above, submitted in connection with registration under section 3 (c)(7)(B) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, are acceptable, subject to the comments listed below.

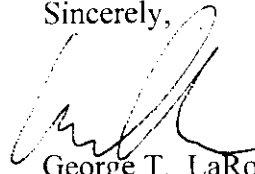
1. Add the following statement to all labels: "This pesticide is highly toxic to aquatic invertebrates."
2. For cranberry use, add the following precautions: "If applications are made when blooms remain on the bed, application must be performed during periods of minimum bee activity (early morning or evening). Treatments are only allowed to soils with no standing water. Do not apply directly to water, to areas where surface water is present, or within 5 feet of any water moving off or through the cranberry bed. Do not apply to soils that have a rapidly permeable surface soil (sand) and no impermeable subsurface (clay, high organic matter layer or hardpan) and where the water table of the underlying aquifer is shallow. Do not apply within 5 hours of rainfall or irrigation."
3. The following data requirements remain outstanding:
  - a. 164-1: The terrestrial field dissipation study failed to include those transformation products detected in the laboratory fate studies as analytes. In addition, the fate of spinosad Factor D and the formulated mixture that consists of Factors A and D on terrestrial sites is unknown. A new field dissipation study must be submitted.

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- b. 165-4: The bioaccumulation in laboratory fish studies failed to separately characterize metabolites in edible and non-edible fish tissues. Also, the percentage of residues positively characterized and identified could not be determined. A new fish accumulation study must be submitted.
- c. 70-1: Data have been submitted that show sediment toxicity toward *Chironomus riparius*; however analytical deficiencies in this study need to be reconciled. Additional data need to be submitted for a second species, *Hyalella azteca*, to adequately characterize risk to sediment-dwelling invertebrates.

You are required to incorporate the supplemental instructions on the basic label within one year of approval. Stamped copies of the labels are enclosed for your records. If you have any questions, please call Dr. William Sproat of my team at 703-308-8587.

Sincerely,



George T. LaRocca  
Product Manager 13  
Insecticide Branch  
Registration Division (7505C)

Enclosure

# Supplemental Labeling



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

## SpinTor\* 2SC EPA Reg. No. 62719-294

### Foliar Insect Control in Sugar Beet and Garden Beet

**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 SpinTor\* 2SC Naturalyte\* insect control before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of SpinTor 2SC according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for SpinTor 2SC.

### Directions for Use

Refer to product label for SpinTor\* 2SC Naturalyte\* insect control for General Use Precautions, Mixing and Application instructions.

#### Pests and Application Rates:

Pests	Broadcast Application Rate		
	Active Ingred. (lb/acre)	Product (fl oz/acre)	Acres/Gallon of Product
European corn borer	0.047 - 0.094	3 - 6	43 - 21
dipteran leafminers ( <i>Liriomyza</i> )	0.070 - 0.094	4.5 - 6	28 - 21
thrips			
armyworms			
loopers			

ACCEPTED  
with COMMENTS  
in EPA Letter Dated  
**JAN 22 2002**

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 62719-294

#### Specific Use Directions:

**Application Timing:** For determining when to treat, scout with enough regularity to monitor the population size of each of the labeled pests. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Dow AgroSciences representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

**Application Rate:** Use a higher rate in specified rate range for larger larvae or moderate to severe infestations.

#### Restrictions:

- Do not apply more than a total of 29 ounces of SpinTor 2SC (0.55 lb ai of spinosad) per acre per crop or make more than 6 applications per calendar year.
- **Minimum Treatment Interval:** Do not make applications less than 7 days apart.
- **Pre-harvest Interval:** Do not apply within 3 days of harvest.

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T6P / SpinTor 2SC / Prop Sec 3 Suppl Sugar & Garden Beet / 12-11-00 D06-064-XXX EPA-accepted ___/___/___ Initial printing.	

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# Supplemental Labeling



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

## SpinTor\* 2SC EPA Reg. No. 62719-294

### For Foliar Insect Control in Asparagus (Post Harvest Protection of Ferns Only)

**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 SpinTor\* 2SC Naturalyte\* insect control before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of SpinTor 2SC according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for SpinTor 2SC.

### Directions for Use

Refer to product label for SpinTor 2SC for General Use Precautions, Mixing and Application instructions.

ACCEPTED  
CONDITIONS  
in EPA Label 62719-294

### Pests and Application Rates:

JAN 22 2002

Pests	Application Rate †	
	Active Ingredient (lb/acre)	Product (fl oz/acre)
Asparagus beetle	0.062 - 0.094	4 - 6

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 62719-294

† Use a higher rate in the rate range for heavy infestations or advanced growth stages of the beetle.

### Specific Use Directions:

**Application Timing:** For determining when to treat, scout with enough regularity to monitor the population size of the labeled pest. Make applications only to asparagus ferns. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Dow AgroSciences representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

**Application Rate:** Apply SpinTor 2SC as a foliar spray at the rate indicated to control asparagus beetle in asparagus fern. Heavy infestations may require repeat applications, but follow resistance management guidelines.

**Resistance Management:** For resistance management purposes, do not apply more than 3 times in any 30-day period. Rotate to a different class of insect control products or use no treatment for the next 30 days. Do not make more than 3 applications per crop.

### Restrictions:

- Do not apply more than a total of 18 ounces (0.28 lb ai of spinosad) of SpinTor 2SC per acre per crop.
- **Pre-harvest Interval:** This use is only for asparagus ferns; do not apply within 60 days of spear harvest.
- Do not feed treated ferns to meat or dairy animals.

<p>*Trademark of Dow AgroSciences LLC</p> <p>T6P / SpinTor 2SC / Prop Sec 3 Suppl Asparagus / 10-04-00 D06-064-XXX EPA-accepted ___/___/___ Initial printing.</p>	
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# Supplemental Labeling



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

## SpinTor\* 2SC EPA Reg. No. 62719-294

### Foliar Insect Suppression in Cranberry

**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 SpinTor\* 2SC Naturalyte\* insect control before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of SpinTor 2SC according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for SpinTor 2SC.

### Directions for Use

Refer to product label for SpinTor\* 2SC Naturalyte\* insect control for General Use Precautions, Mixing and Application instructions.

### Pests and Application Rates:

Pests	Broadcast Application Rate			Dilute Spray
	Active Inged. (lb/acre)	Product (fl oz/acre)	Acres/Gallon of Product	Product (fl oz/100 gal)
thrips	0.062 - 0.156	4 - 10	32 - 13	1 - 2.5
armyworms				
leafrollers				
loopers				
fireworms				
sparganothis fruitworm				
currant fruitfly				

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### Specific Use Directions:

**Application Timing:** For determining when to treat, scout with enough regularity to monitor the population size of each of the labeled pests. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Dow AgroSciences representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

**Application Rate:** Application rate within the rate range will depend on plant size and volume of foliage present and pest pressure. Use a higher rate in the rate range for larger larvae or moderate to severe infestations and and/or larger plant volume.

**Coverage of Dilute Sprays:** Dilute sprays should be uniformly applied to point of runoff. The rate per 100 gallons of spray is based on a spray volume of 400 gallons per acre. Gallonage of dilute sprays will vary depending on plant size and density.

### Restrictions:

- Do not apply more than a total of 29 ounces of SpinTor 2SC (0.55 lb ai of spinosad) per acre per crop or make more than 6 applications per calendar year.
- **Minimum Treatment Interval:** Do not make applications less than 7 days apart.
- **Pre-harvest Interval:** Do not apply within 3 days of harvest.

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T6P / SpinTor 2SC / Prop Sec 3 Suppl Cranberry / 12-07-00  
D06-064-XXX  
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# Supplemental Labeling



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

## SpinTor\* 2SC

EPA Reg. No. 62719-294

### For Foliar Insect Control in Artichoke

#### 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 SpinTor\* 2SC Naturalyte\* insect control before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of SpinTor 2SC according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for SpinTor 2SC.

#### Directions for Use

Refer to product label for SpinTor 2SC for General Use Precautions, Mixing and Application instructions.

#### Pests and Application Rates:

Pests	Application Rate <sup>†</sup>	
	Active Ingredient (lb/acre)	Product (fl oz/acre)
artichoke plume moth	0.062 - 0.094	4 - 6
armyworm		
cutworm		

ACCEPTED with COMMENTS in EPA Letter Dated

JAN 22 2002

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

62719-294

<sup>†</sup> Use the higher end of the rate range for larger larvae or high infestations.

#### Specific Use Directions:

**Application Timing:** For determining when to treat, scout with enough regularity to monitor the population size of each of the labeled pests. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Dow AgroSciences representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

**Application Rate:** Apply SpinTor 2SC as a foliar spray at the rate indicated to control plume moth larvae, armyworms, and cutworms in artichokes. Heavy infestations may require repeat applications, but follow resistance management guidelines.

**Resistance Management:** For resistance management purposes, do not apply more than 3 times in any 30-day period. Rotate to a different class of insect control products or use no treatment for the next 30 days. Do not make more than 4 applications per crop.

#### Restrictions:

- Do not apply more than a total of 22.5 ounces (0.35 lb ai of spinosad) of SpinTor 2SC per acre per crop.
- **Pre-harvest Interval:** Do not apply within 2 days of harvest.



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T6P / SpinTor 2SC / Prop Sec 3 Suppl Artichoke / 10-04-00

D06-064-XXX

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# Supplemental Labeling

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

## SpinTor\* 2SC

EPA Reg. No. 62719-294

### For Foliar Insect Control in Pecan, Walnut, Chestnut and Pistachio

- 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 SpinTor\* 2SC Naturalyte\* insect control before applying. Carefully follow all precautionary statements and applicable use directions.
  - Use of SpinTor 2SC according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for SpinTor 2SC.

### Directions for Use

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in EPA Letter

**Tree Nuts, Including but not Limited to: Pecan, Walnut, Chestnut, and Pistachio**

JAN 22 2002

#### Pests and Application Rates:<sup>†</sup>

Pests	Rate of SpinTor 2SC <sup>†</sup>		
	Active Ingredient (lb/acre)	(fl oz/acre)	Dilute Spray <sup>**</sup> (fl oz/100 gal)
redhumped caterpillar pecan nut casebearer fall webworm hickory shuck worm walnut caterpillar	0.062 - 0.156	4 - 10	1 - 2.5

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide registered under EPA Reg. No. 62719-294

- <sup>†</sup> Crop oils labeled for agricultural use may be added to the dormant spray solution for suppression of overwintering mites and scale insects. Consult specific oil labels and University recommendations for precautions and restrictions regarding the use of oils in nut and fruit trees.
- <sup>\*\*</sup> The amount of SpinTor 2SC per acre will depend on tree size and volume of foliage present and pest pressure. Choose a lower rate for light infestations and/or small trees and the higher rate for heavy infestations and/or larger trees.
- <sup>\*\*\*</sup> Dilute sprays are sprayed to runoff. The rate per 100 gallons is based on 400 gallons providing coverage to runoff. Gallonage of dilute sprays will vary depending on tree size, density of canopy and stage of growth of the trees.

#### Specific Use Directions:

**Application Timing:** Mix the required dosage in sufficient water to ensure thorough and complete coverage of the foliage and tree and apply as a concentrate or dilute spray using conventional, power operated spray equipment. For dilute sprays, mix the required dosage in sufficient water to allow for spray to runoff. For concentrate sprays, apply an equivalent amount of SpinTor 2SC. Treat when pests appear or in accordance with local conditions. Consult your Dow AgroSciences representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

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**Restrictions:**

- Do not apply more than a total of 29 ounces of SpinTor 2SC (0.45 lb of spinosad) per acre per crop.
- **Treatment Interval:** Do not apply treatments less than 14 days apart.
- **Preharvest Interval:** Do not apply within 14 days of harvest.

<p>*Trademark of Dow AgroSciences LLC</p> <p>T6P / SpinTor 2SC / Prop Sec 3 Suppl Tree Nuts / 10-12-00 D06-064-XXX EPA-accepted ___/___/___ Initial printing.</p>	<p><b>Revisions:</b> Added use in pecan, walnut, chestnut, and pistachio.</p>
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# Supplemental Labeling



Dow AgroSciences LLC

9330 Zionsville Road

Indianapolis, IN 46268-1054 USA

## SpinTor\* 2SC

EPA Reg. No. 62719-294

### For Foliar Insect Suppression In Bushberries, Juneberry, Salal, and Ligonberry

#### 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 SpinTor\* 2SC Naturalyte\* insect control before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of SpinTor 2SC according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for SpinTor 2SC.

#### Directions for Use

SpinTor\* 2SC Naturalyte\* insect control may be used to suppress the listed pests infesting bushberries (including but not limited to blueberry, currant, gooseberry, huckleberry, and elderberry), juneberry, salal, and ligonberry.

Refer to product label for SpinTor\* 2SC Naturalyte\* insect control for General Use Precautions, Mixing and Application instructions.

#### Pests and Application Rates:

Pests	Application Rate <sup>†</sup>	
	Active Ingred. (lb/acre)	Product (fl oz/acre)
armyworms blueberry maggot cherry fruitworm cranberry fruitworm currant fruitfly fireworms leafrollers loopers sparganothis fruitworm thrips	0.062 – 0.094	4 - 6

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

JAN 22 2002

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

62719-294

<sup>†</sup> The amount of SpinTor 2SC per acre will depend on plant size and volume of foliage present and pest pressure. Choose a lower rate for light infestations and/or small plants and a higher rate for heavy infestations and/or larger plants.

#### Specific Use Directions:

**Application Timing:** Treat when pests appear, targeting eggs at hatch or small larvae. Heavy infestations may require repeat applications but follow resistance management guidelines. Consult your Dow AgroSciences representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

**Resistance Management:** Do not apply SpinTor 2SC more than 3 times in any 30 day period. Whenever SpinTor 2SC is applied three times in succession, this should be followed by no use of SpinTor 2SC for a 30 day period or rotation to another insecticide class.

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**Restrictions:**

- Do not apply more than a total of 29 ounces of SpinTor 2SC (0.45 lb ai of spinosad) per acre per crop or make more than 6 applications per calendar year.
- **Minimum Treatment Interval:** Do not make applications less than 6 days apart.
- **Pre-harvest Interval:** Do not apply within 3 days of harvest.

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T6P / SpinTor 2SC / Prop Sec 3 Suppl IR-4 Bushberries / 03-01-01

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