

PM03

62719-294

4-15-98

10416

5523758

100

17



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
401 "M" St. S.W.  
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

62719-294

April 15, 1998

Term of Issuance: Unconditional

Name of Pesticide Product:

SpinTor 2SC

## NOTICE OF PESTICIDE:

- ☒ Registration  
☐ Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Robert F. Bischoff  
Dow AgroSciences  
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 unconditionally registered in accordance with FIFRA sec. 3(c)(5). Once a pesticide is registered, however, it is not regarded as permanently acceptable. Registration does not eliminate the need for continual reassessment of pesticides. If the Agency determines that, at any time, additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under FIFRA section (3)(c)(2)(B).

## 1. Make the following label changes:

- Revise the EPA Registration Number to read, "EPA Reg. No. 62719-294".
- In the Environmental Hazards Statement, change the sentence "This product is toxic to mollusks" to either of the two following statements: "This pesticide is toxic to aquatic invertebrates" or "This pesticide is highly toxic to mollusks."

Signature of Approving Official:

Date: \_

*Beth Edwards* For George LaRocca

APR 15 1998

20416

- c. In the Directions for Use on Cole Crops (Brassica Vegetables) and Fruiting Vegetable Crops, delete the words "Including but not limited to." All possible crops for these crop groups are already listed on your label.
2. Submit two copies of the revised final printed label for the record.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

*Beth Edwards*

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

Enclosure

30416

T6P/SpinTor 2SC/PropSec3/03-23-98  
file: SpinTor 2SC Draft March98d.doc

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

APR 15 1998

# SpinTor\* 2SC

EPA Reg. No. 62719-XXX

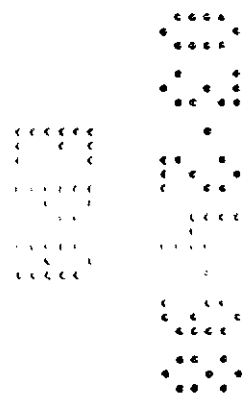
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

62719-294

## Registration Notes:

Proposed Labeling for Section 3 Registration.

\*Trademark of Dow AgroSciences LLC



APR 15 1998

(Base Label)

(Logo) Dow AgroSciences

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

602719-294

**SpinTor\* 2SC**

A Naturalyte\* insect control product for control of lepidoptera larvae (worms or caterpillars), leafminers and thrips in apples, citrus, cole crops, fruiting vegetables (tomatoes, peppers and eggplants) and leafy vegetables.

Active Ingredients: spinosad (a mixture of spinosyn A and spinosyn D).....	22.8%
Inert Ingredients.....	77.2%
Total.....	100.0%

Contains 2 pounds of active ingredient per gallon.

U.S. Patent No. 5,496,931

**Keep Out of Reach of Children**

---

**Precautionary Statements**

---

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

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

**Harmful if absorbed through skin.****Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.****Personal Protective Equipment (PPE)****Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves

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.

**First Aid****If on skin:** Wash with plenty of soap and water. Get medical attention if irritation persists.**User Safety Recommendations****Users should:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

50416

### Environmental Hazards

This product is highly toxic to bees exposed to direct spray on blooming crops or other vegetation. Avoid use when bees are actively foraging. Protective information may be obtained from your Cooperative Agricultural Extension Service. This product is toxic to mollusks. Do not apply directly to water, 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 washwaters.

### Agricultural Use Requirements

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

Refer to label booklet for Directions for Use including Storage and Disposal.

**Notice:** Read the entire label. Use only according to label directions. **Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at [www.dowagro.com](http://www.dowagro.com).

**Shake Well Before Use – Avoid Freezing**

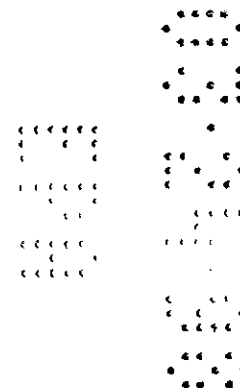
EPA Reg. No. 62719-XXX

\*Trademark of Dow AgroSciences LLC  
Dow AgroSciences LLC, Indianapolis, IN 46268 USA

EPA Est. 00000-XX-00

## Naturalyte\* Insect Control

Net Contents XXX



60416

(Label Booklet Cover)

(Logo) Dow AgroSciences

## SpinTor\* 2SC

A Naturalyte\* insect control product for control of lepidoptera larvae (worms or caterpillars), leafminers and thrips in apples, citrus, cole crops, fruiting vegetables (tomatoes, peppers and eggplants) and leafy vegetables.

Active Ingredients: spinosad (a mixture of spinosyn A and spinosyn D).....	22.8%
Inert Ingredients.....	77.2%
Total.....	100.0%

Contains 2 pounds of active ingredient per gallon.

U.S. Patent No. 5,496,931

Keep Out of Reach of Children

### CAUTION

### PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

#### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to the 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 Personal Protective Equipment (PPE) and User Safety Recommendations, and Directions for Use including Storage and Disposal.

**Notice:** Read the entire label. Use only according to label directions. **Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at [www.dowagro.com](http://www.dowagro.com).

**Shake Well Before Use -- Avoid Freezing**

EPA Reg. No. 62719-XXX

\*Trademark of Dow AgroSciences LLC  
Dow AgroSciences LLC, Indianapolis, IN 46268 USA

EPA Est. 00000-XX-00

## Naturalyte\* Insect Control

Net Contents XXX



(Page 1 through end)

---

**Precautionary Statements**

---

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

Harmful if absorbed through skin.

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

**Personal Protective Equipment (PPE)**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves

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.

**First Aid**

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

**User Safety Recommendations**

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

**Environmental Hazards**

This product is highly toxic to bees exposed to direct spray on blooming crops or other vegetation. Avoid use when bees are actively foraging. Protective information may be obtained from your Cooperative Agricultural Extension Service. This product is toxic to mollusks. Do not apply directly to water, 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 washwaters.

**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 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 4 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
- Waterproof gloves
- Shoes plus socks

### Storage and Disposal

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

**Storage:** Store in original container only. In case of leak or spill, contain material with absorbent materials and dispose as waste.

**Disposal:** Wastes resulting from the use of this product may be disposed of on site according to label use directions or at an approved waste disposal facility.

**Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### General Information

SpinTor\* 2SC is a Naturalyte\* insect control product derived from the fermentation of *Saccharopolyspora spinosa* for control of lepidoptera larvae (worms or caterpillars), Colorado potato beetles, leafminers and thrips in various fruit and vegetable crops. SpinTor 2SC (suspension concentrate) should be mixed with water and applied as a foliar spray with aerial or ground equipment equipped for conventional insecticide spraying.

### General Use Precautions

**Chemigation:** Do not apply through any type of irrigation equipment.

### Integrated Pest Management (IPM) Programs

SpinTor 2SC is recommended for IPM programs in apples and various vegetable crops. SpinTor 2SC should be applied when field scouting indicates target pest densities have reached the economic threshold, i.e. the point at which the insect population must be reduced to avoid economic losses beyond the cost of control. Other than reducing the target pest species as a food source, SpinTor 2SC does not have a significant impact on certain parasitic insects or the natural predaceous arthropod complex in these cropping systems, including big-eyed bugs, ladybird beetles, *Stethorus*, flower bugs, lacewings, minute pirate bugs, damsel bugs, assassin bugs, predatory mites or spiders. The feeding activities of these beneficial arthropods will aid in the extended natural control of other insects and reduce the likelihood of secondary pest outbreaks for which additional insecticide treatments may be needed. If SpinTor 2SC is tank mixed with any insecticide that reduces its selectivity in preserving beneficial predatory insects, then the full benefit of SpinTor 2SC to your IPM program may be reduced.



90416

**Insecticide Resistance Management (IRM) Recommendations:**

Certain insects and mites have demonstrated a propensity to develop resistance to insect control products. For these insects avoid treating consecutive generations with the same product or products from the same class. SpinTor is a member of the Naturalyte\* class of insect products and can be rotated with all other products and classes. Always consult with your local agricultural specialist or Dow AgroSciences representative (800-258-3033) for guidance and information on area resistance management programs. In the absence of a locally coordinated program, adherence to the following IRM strategy will help to ensure the prolonged usefulness of SpinTor and conventional insecticides. Further guidelines for pests with historic problems are listed under crop specific recommendations. Additional information on IRM strategies can be obtained from the Insecticide Resistance Action Committee (IRAC) of the American Crop Protection Association (ACPA).

- Do not use less than labeled rates of any insect control product when applied alone or in tank mixtures.
- Target applications against small larvae and eggs whenever possible.
- Include multiple tactics (e.g. cultural or biological controls) within an Integrated Pest Management Program.

**Mixing**

**Always shake well before use. Avoid freezing.**

**Mixing SpinTor 2SC Alone:** Fill the spray tank with water to about 1/2 of the total spray volume required. Start agitation and add the required amount of SpinTor 2SC. Continue mixing and agitation while filling the spray tank to the required spray volume. Maintain sufficient agitation during application to ensure uniformity of the spray mix. Do not allow water or spray mixture to back-siphon into the water source.

**Tank Mixing:** When tank mixing SpinTor 2SC with other materials, a compatibility test (jar test) using relative proportions of tank mix ingredients should be conducted prior to mixing ingredients in the spray tank. If foliar fertilizers are used the jar test should be repeated with each batch of fertilizer utilizing the mixing water source. Vigorous, continuous agitation during mixing, filling and throughout application is required for all tank mixes. Sparger pipe agitators generally provide the most effective agitation in spray tanks. To prevent foaming in the spray tank, avoid stirring or splashing air into the spray mixture.

**Mixing Order for Tank Mixes:** Fill the spray tank with water to 1/4 to 1/3 of the total spray volume required. Start agitation. Add different formulation types in the order indicated below, allowing time for complete mixing and dispersion after addition of each product. Allow extra mixing and dispersion time for dry flowable products.

Add different formulation types in the following order:

1. Water dispersible granules
2. Wettable powders
3. SpinTor 2SC and other aqueous suspensions

Maintain agitation and fill spray tank to 3/4 of total spray volume. Then add:

4. Emulsifiable concentrates and water-based solutions
5. Spray Adjuvants
6. Foliar Fertilizers

Finish filling the spray tank. Maintain continuous agitation during mixing, final filling and throughout application. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose.

108416

**Premixing:** Dry and flowable formulations may be premixed with water (slurried) and added to the spray tank through a 20-35 mesh screen. This procedure assures good initial dispersion of these formulation types.

## Application

Proper application techniques help ensure thorough spray coverage and correct dosage necessary to obtain optimum control of insect pests. The following recommendations are provided for ground and aerial application of SpinTor 2SC. Attention should be given to sprayer speed and calibration, wind speed, and foliar canopy to ensure adequate spray coverage.

### Ground Application

Use power-operated ground spray equipment calibrated to provide thorough coverage of the target crop. Orient the boom and nozzles to obtain uniform crop coverage. A minimum of 10 gallons per acre should be utilized, increasing volume with crop size and or pest pressure. Use hollow cone or twin jet flat fan nozzles suitable for insecticide spraying. Under certain conditions, drop nozzles may be required to obtain uniform coverage. Follow manufacturer's recommendations for ideal nozzle spacing and spray pressure and minimize boom height to optimize uniformity of coverage and maximize deposition (optimize on-target deposition) to reduce drift.

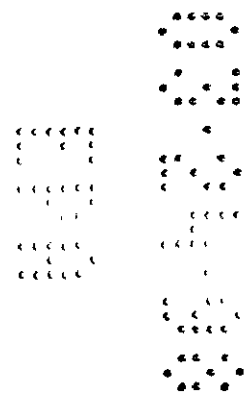
### Orchard Applications

**Applied as a dilute spray:** This application method is based on the premise that all plant parts are thoroughly wetted, to the point of runoff, with spray solution. To determine the number of gallons of dilute spray per acre required in your orchard contact your state agricultural experiment station, certified pest control advisor, or extension specialist for assistance.

**Concentrate spray applications:** This application method is based on the premise that all the plant parts are evenly covered with spray solution but not to the point of runoff as with a dilute spray. Instead, a lower gallonage of water is used with the same amount of SpinTor 2SC per acre as in the dilute spray.

### Aerial Application

Apply in a total minimum spray volume of 5 gallons per acre (or 10 gallons per acre in the case of tree or orchard crops) using nozzle configurations which will provide a median droplet size of 200-300 microns (example D4-D6 or 6504-6508 nozzles). Boom length must be less than 75% of wing or rotor span. Use minimum safe application height, (should not exceed 12 feet above target). Use swath markers or flagging. The aircraft boom nozzle configurations used should be patterned previously (e.g., at NAAA Fly-In) for both crosswind and near parallel winds. If parallel wind application must be made, swath width should be adjusted downward. Use some swath adjustment (offset) to compensate for increasing crosswinds. Do not apply in dead calm and preferably only when wind speed is between 2 - 10 mph. Under conditions of low humidity and high temperatures, adjust spray volume and droplet size upward. Insect control by aerial application may be less than control by ground application because of less coverage.



11/07/16

## Approved Uses

### Apples

**Pests and application rates :** Use the following table and select the higher application rate when pest pressure is high.

Pests	Rate Per Acre <sup>†</sup>		Acres Per	Rate Per 100 Gal of Dilute Spray <sup>††</sup>
	Pounds Active	Ounces of Product	Gallon of Product	Ounces of Product
leafminers spotted tentiform western tentiform	0.062 - 0.156	4 - 10	32 - 13	1 - 2.5
leafrollers oblique-banded pandemis tufted apple budmoth	0.078 - 0.156	5 - 10	25 - 13	1.25 - 2.5

<sup>†</sup>The amount of SpinTor 2SC per acre will depend on tree size and volume of foliage present. The rate per acre is based on a standard of 400 gallons of dilute spray per acre.

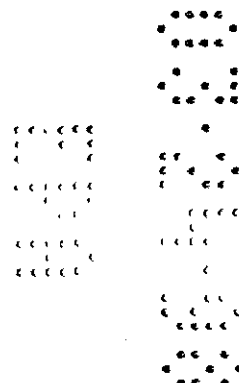
<sup>††</sup>Dilute sprays are sprayed to runoff. Gallonage of dilute sprays will vary depending on tree size, density of canopy and stage of growth of the trees and tree spacing in the orchard.

### Specific Use Directions

**Application Timing:** Optimal timing for **leafminers** and **leafrollers** may vary between species and geographic location. For **leafminers**, monitor the moth flights and infestation densities of both the sap-feeding and tissue-feeding stage. For **leafrollers**, monitor the moth flights and the infestation densities of the larval stages. Repeat application as necessary to maintain control. Consult with your Dow AgroSciences representative, state agricultural experiment station, certified pest control advisor or extension specialist for specific application timings in your area.

### Restrictions:

- For resistance management purposes, do not apply more than 3 sprays targeted at leafrollers per season.
- Do not apply more than a total of 29 ounces of SpinTor 2SC (0.45 lb of spinosad) per acre per crop.
- **Preharvest Interval:** Do not apply within 7 days of harvest.



120416

## Citrus

Including but not limited to: Oranges, Grapefruit, Lemons, Limes, and Tangerines.

### Pests and application rates :

Pests	Rate per Acre†		Acres Per	Rate Per 100 Gal of Water Dilute††
	Pounds Active	Ounces 2 SC	Gallon of Product	Ounces 2 SC
Citrus Thrips Citrus Orangedog Citrus Leafminer	0.062 - 0.156	4 - 10	32 - 13	1 - 2.5

† The amount of SpinTor per acre will depend on tree size and volume of foliage present. The rate per acre is based on a standard of 400 gallons of dilute spray per acre. Choose a higher rate in the rate range for heavy infestations and/or larger trees.

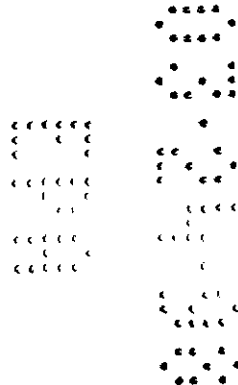
†† Dilute sprays are sprayed to runoff. Gallonage of dilute sprays will vary depending on tree size, density of canopy and stage of growth of the trees and tree spacing in the orchard.

### Crop-specific Application Remarks

**Restrictions:** Citrus thrips have demonstrated a high potential to develop resistance to insect control products. Do not apply any insect control product including SpinTor more than 2 consecutive times for thrips control. If additional treatments are required rotate to another class of products for the next 30 days or 2 sprays whichever is longest.

- For resistance management purposes Do Not apply to citrus nurseries or citrus in greenhouses.
- Do not apply more than a total of 29 ounces of SpinTor (0.45 lb of spinosad) per acre per crop.
- **Preharvest Interval:** Do not apply within 1 day of harvest.

**Application Timing:** Treat when pests appear or in accordance with local economic thresholds. Consult your Dow AgroSciences representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional area use recommendations for your area.



### Cole Crops

Including but not limited to: Broccoli, Chinese Broccoli, Broccoli raab, Brussels sprouts, Cabbage, Chinese Cabbage (bok choy), Chinese Cabbage (napa), Cauliflower, Cavalo, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, Chinese Mustard Cabbage (gai choy) and Rape Greens.

#### Pests and application rates:

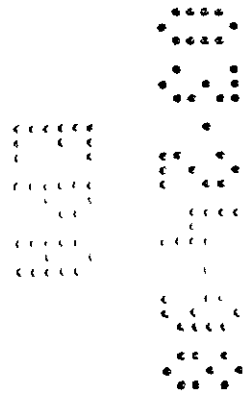
Pests	Rate per Acre		Acres Per Gallon of Product
	Pounds Active	Ounces Product	
diamond back moth	0.023 - 0.047	1.5 - 3	85 - 43
imported cabbage worm, cabbage looper	0.047 - 0.094	3 - 6	43 - 21
armyworms (including beet armyworm) leafminers	0.062 - 0.125	4 - 8	32 - 16

#### Specific Use Directions

**Application Timing:** Use SpinTor 2SC at the dosages indicated by application as a foliar spray to control pests in cole crops. For moderate to heavy infestations of any pest or large worms choose a higher rate in the specified range. Heavy infestations may require repeat applications but follow resistance management guidelines. Treat when pests appear, targeting eggs at hatch or small larvae. 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.

#### Restrictions:

- Do not apply more than a total of 0.45 lb a.i. of spinosad active ingredient (29 oz of product) per acre per crop.
- **Preharvest Interval:** Do not apply within 1 day of harvest.
- Do not apply to seedling cole crops grown for transplant within a greenhouse or shade house.
- For resistance management, do not apply more than 3 times in a 30 day period. Rotate to a different class of insect control products or use no treatment for the next 30 days. Do not apply more than 6 treatments per crop and a 30 day period of no SpinTor treatments must separate the maximum of 3 consecutive treatments.



140416

**Fruiting Vegetable Crops**

Including but not limited to: Eggplant, Ground cherry, Pepino, Pepper, Tomatillo, and Tomato

**Pests and application rates:**

Pests	Rate per Acre		Acres Per Gallon of Product
	Pounds Active	Ounces Product	
Lepidopterous larvae (maintenance only)	0.023 - 0.047	1.5 - 3	85 - 43
Colorado potato beetle larvae	0.035 - 0.070	2.25 - 4.5	57 - 28
hornworms loopers tomato fruitworm	0.047 - 0.094	3 - 6	43 - 21
armyworms (including beet armyworm) thrips (including melon & western flower) tomato pinworm European corn borer	0.062 - 0.125	4 - 8	32 - 16
leafminers ( <i>Liriomyza</i> spp.)	0.094 - 0.125	6 - 8	21 - 16

**Crop-specific Use Directions**

**Application Timing:** Scout weekly throughout the season to monitor and track leafminer and thrips populations to determine when populations exceed the economic threshold.

For tracking **lepidopterous larvae**, scout with enough regularity to monitor the population size of each of the labeled pests. Consult current pest management recommendations for specific guidelines. Applications of SpinTor 2SC should be timed to coincide with peak egg hatch in species without overlapping generations. Where low numbers of small lepidopterous larvae are present, reduced rates as given in the table may be used for **maintenance sprays**. Use these rates only for suppression of low numbers and not for corrective treatments of higher numbers of larvae. For maintenance sprays, rotate SpinTor 2SC with another maintenance material such as *Bacillus thuringiensis* products. For moderate to heavy infestations of any pest or large worms choose a higher rate in the specified range.

**Insecticide Resistance Management:** Because **leafminers, thrips and pinworms** have short overlapping generations, rotate products for these pests and never apply more than two consecutive applications of a single product or products containing the same active ingredient (including SpinTor 2SC) or products with the same mode of action when targeted for leafminer, thrips or pinworm control.

**Restrictions:**

- Do not apply more than a total of 0.45 lb a.i. of spinosad active ingredient (29 oz of product) per acre per crop.
- Preharvest Interval:** Do not apply within 1 day of harvest.
- Do not apply to seedling fruiting vegetables grown for transplant within a greenhouse or shade house.
- For resistance management, do not apply more than 3 times in any 21 day period. Rotate to a different class of insect control product or use no treatment for the next 21 days.

### Leafy Vegetables

Including but not limited to: Head and Leaf lettuce, Celery, Arugula, Chervil, Edible Chrysanthemum, Corn Salad, Cress, Dandelion, Dock, Endive, Fennel, Parsley, Garden Purslane, Radicchio, Rhubarb, Spinach, and Swiss Chard.

#### Pests and application rates:

Pests	Rate per Acre		Acres Per Gallon of Product
	Pounds Active	Ounces Product	
Cabbage Looper, Armyworms (including beet armyworm)	0.062 - 0.125	4 - 8	32 - 16
Leafminers ( <i>Liriomyza</i> spp.)	0.094 - 0.156	6 - 10	21 - 13

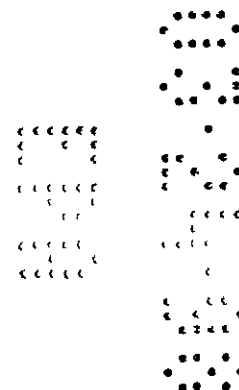
#### Crop-specific Application Recommendations:

**Application Timing:** Use SpinTor at the dosages indicated by application as a foliar spray to control pests in leafy vegetables. For heavy infestations or large worms choose a higher rate in the specified range. Heavy infestations may require repeat applications but follow resistance management guidelines. Treat when pests appear, targeting eggs at hatch or small larvae. 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.

**Insecticide Resistance Management:** Because leafminers have short overlapping generations, rotate products for these pests and never apply more than two consecutive applications of a single product or products containing the same active ingredient (including SpinTor 2SC) or products with the same mode of action when targeted for leafminer. Follow general guidelines for other pests.

#### Restrictions:

- Do not apply more than a total of 0.45 lb a.i. of spinosad active ingredient (29 oz of product) per acre per crop.
- **Preharvest Interval:** Do not apply within 1 day of harvest.
- Do not apply to seedling leafy crops grown for transplant within a greenhouse or shade house.
- For resistance management, do not apply more than 3 times in a 21 day period. Rotate to a different class of insect control products or use no treatment for the next 21 days. Do not apply more than 6 treatments per crop and a 21 day period of no SpinTor treatments must separate the maximum of 3 consecutive treatments.



16af16

### 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

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.

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.

The terms of the Warranty Disclaimer above and this 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   /  /  

