

100-1440

6/21/2012

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U S ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg Number

100-1440

Date of Issuance

JUN 21 2012

NOTICE OF PESTICIDE

Registration  
 Reregistration  
(under FIFRA as amended)

Term of Issuance

Conditional

Name of Pesticide Product

Solvigo™ Miticide/Insecticide

Name and Address of Registrant (include ZIP Code)

Syngenta Crop Protection  
P O Box 18300  
Greensboro, NC 27419

ATTN Carolyn Brinkley

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 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 section 3(c)(7)(A) provided that you

- 1 Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data
- 2 The data requirements for storage stability and corrosion characteristics (Guidelines 830 6317 and 830 6320) are not satisfied A one year study is required to satisfy these data requirements You have 18 months from the date of registration to provide these data

Signature of Approving Official

Date

JUN 21 2012

John Hebert, Product Manager 07  
Insecticide-Rodenticide Branch, Registration Division (7505P)

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EPA Reg No 100-1440

- 3 Make the following label changes before you release the product for shipment
  - Revise the EPA Registration Number to read, "EPA Reg No 100-1440 "
- 4 Submit one copy of your final printed labeling before you release the product for shipment

A stamped copy of the label is enclosed for your records Please also note that the record for this product currently contains the following CSFs

- Basic CSF (1223/2), dated 11/3/11
- Alternate CSF #1 (1291/3), dated 12/14/11

Your release for shipment of the product constitutes acceptance of the above conditions If the conditions above are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e) If you have any questions, please contact Julie Chao at 703-308-8735 or [chao.julie@epa.gov](mailto:chao.julie@epa.gov)

John Hebert  
Product Manager 07  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

Enclosure

(BOOKLET)

**RESTRICTED USE PESTICIDE**  
 TOXIC TO FISH, MAMMALS, AND AQUATIC ORGANISMS  
 FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR  
 PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES  
 COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION

Sale, Use, and Distribution of this Product in Nassau and Suffolk Counties in the State of New York is Prohibited

**Solvigo™ Miticide/Insecticide**

**GROUP 6 | 4A | INSECTICIDES**

Active Ingredient	
Abamectin <sup>1</sup>	3.43%*
Thiamethoxam <sup>2</sup>	6.86%*
Other Ingredients	89.71%
<hr/> Total	<hr/> 100.00%

<sup>1</sup>CAS No 71751-41-2

<sup>2</sup>CAS No 153719-23-4

\*1 gal contains 0.3 lb abamectin and 0.6 lb thiamethoxam formulated as a suspension concentrate

**KEEP OUT OF REACH OF CHILDREN**

**WARNING/AVISO**

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)

See additional precautionary statements and directions for use in booklet

EPA Reg No 100-RUUN

EPA Est XXXX

SCP RUUN(draft new product-b)

Net Contents

**ACCEPTED**  
**JUN 21 2012**  
 Under the Federal Insecticide, Fungicide,  
 and Rodenticide Act, as amended, for the  
 pesticide registered under

EPA Reg No 100-1440

<b>FIRST AID</b>	
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably by mouth-to-mouth if possible</li> <li>• Call a poison control center or doctor for further treatment advice</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice</li> <li>• Have person sip a glass of water if able to swallow</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor</li> <li>• Do not give anything by mouth to an unconscious person</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes</li> <li>• Remove contact lenses, if present after the first 5 minutes then continue rinsing eye</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
<b>NOTE TO PHYSICIAN</b>	
<p>Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular tremors. Toxicity following accidental ingestion of this product can be minimized by early administration of chemical adsorbents (e.g., activated charcoal).</p> <p>If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements.</p> <p>In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.</p>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<b>HOT LINE NUMBER</b>	
<p>For 24-Hour Medical Emergency Assistance (Human or Animal)  Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident),  Call  <b>1-800-888-8372</b></p>	

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**PRECAUTIONARY STATEMENTS**

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**Hazards to Humans and Domestic Animals**

**WARNING/AVISO**

May be fatal if swallowed or inhaled Do not breathe spray mist Harmful if absorbed through the skin Causes moderate eye irritation Avoid contact with skin eyes or clothing Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet Remove and wash contaminated clothing before reuse

**Personal Protective Equipment (PPE)**

**Applicators and other handlers must wear**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material – Category A (e.g. natural rubber ≥ 14mils)
- Respirator with an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P or HE prefilter

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate DO NOT reuse them 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

**IMPORTANT** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down

**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.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Environmental Hazards**

This pesticide is toxic to fish, wildlife and aquatic invertebrates.

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 apply when weather conditions favor drift from target areas. Do not contaminate water when disposing of equipment wash water or rinsate. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging in/or adjacent to the treatment area.

Use of this product may pose a risk to threatened and endangered species of fish, amphibians, crustaceans (including fresh water shrimp), and insects. All use of this product in the state of California should comply with the recommendations of the California Endangered Species Project. Before using this product in California, consult with your county agriculture commissioner to determine use limitations that apply in your area.

**Surface Water Advisory**

This product may impact surface water quality due to spray drift and runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of thiamethoxam water from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours.

(See manual at the following Internet address

<http://www.wsi.nrcs.usda.gov/products/W2Q/pest/core4.html> )

**Ground Water Advisory**

Solvigo Miticide/Insecticide contains the active ingredients abamectin and thiamethoxam. Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use subject to the inherent risks referred to above when used in accordance with directions under normal use conditions. To the extent permitted by applicable law (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA and (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.



**DIRECTIONS FOR USE**

**RESTRICTED USE PRODUCT**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

**RESTRICTIONS**

- Do not apply this product in a way that will contact workers or other persons, either directly or through drift Only protected handlers are allowed in the area during application For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation
- Do not use Solvigo Miticide/Insecticide in nurseries greenhouses, and plant propagation houses, or on any plants grown for use as transplants
- Do not apply Solvigo Miticide/Insecticide to crops grown from seed treated with thiamethoxam
- Do not apply Solvigo Miticide/Insecticide or allow it to drift onto blooming plants or weeds while bees are foraging in/adjacent to the treated area
- This product is classified as restricted use in New York State
- Do not apply Solvigo Miticide/Insecticide with aircraft in New York State
- Sale use and distribution of this product in Nassau and Suffolk counties in the state of New York is prohibited
- In New York State do not exceed a total of 0 188 lb a i of thiamethoxam-containing products per acre per growing season

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. Exception for grape girdling, cane turning, and tying in grapes, do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 days.**

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 over short pants and short-sleeved shirt
- Chemical-resistant gloves made of any waterproof material – Category A (e.g., natural rubber ≥ 14 mils)
- Shoes plus socks

**FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR PEST CONTROL, AND/OR ILLEGAL RESIDUES**

**USE INFORMATION**

Solvigo Miticide/Insecticide is an aqueous-based soluble concentrate that will control specified pests on Tuberous and Corm Vegetables and Grapes when the product is applied according to the **Crop Use Directions**. Thorough coverage of foliage is essential for good mite and insect control.

**NOTE**

- **Adjuvant Requirement** To avoid illegal crop residues, Solvigo Miticide/Insecticide **must always** be mixed with a non-phytotoxic non-ionic activator type wetting, spreading and/or penetrating adjuvant as specified in the **Directions for Use for Tuberous and Corm Vegetables and Grapes** on this label. Non-ionic activator type wetting, spreading and/or penetrating adjuvants include non-ionic surfactants (NIS) with at least 75% surface active agent and crop oil concentrates (COC),

- vegetable oil concentrates (VOC), methylated seed/vegetable oils (MSO) and organosilicones (OS) with at least 15% emulsifiers/surfactants and include blends of these non-ionic activator type adjuvants. Adjuvants must be compatible with Solvigo and must be used at concentrations specified on the adjuvant label directions for use. **Do not use binder or sticker type adjuvants.** SYNGENTA recommends the use of a Chemical Producers and Distributors Association-certified adjuvant.
- **Phytotoxicity** Solvigo Miticide/Insecticide has been tested for phytotoxicity and has a wide margin of safety on a variety of crops. Solvigo Miticide/Insecticide has also been shown to be compatible with many commonly used pesticides, crop oils, adjuvants and nutritional sprays. However, since it is not possible to test all possible mixtures, pre-test any proposed mixtures with Solvigo Miticide/Insecticide to ensure physical compatibility and lack of phytotoxic effects.
- **Chemigation** Do not apply this product through any type of irrigation system.

## SPRAY DRIFT

### Responsibility

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions.

**NOTE** When states have more stringent regulations they must be observed.

### Spray Drift Precautions for Application with Aircraft or Ground Application Equipment

- Apply Solvigo Miticide/Insecticide only when wind velocity favors on-target product deposition (approximately 3 to 10 mph).
- Do not apply with ground application equipment within 25 ft of or with aircraft within 150 ft of lakes, reservoirs, rivers, permanent streams, marshes, pot holes, natural ponds, estuaries, or commercial fish farm ponds.
- Do not cultivate within 25 ft of the aquatic area to allow growth of a vegetative filter strip.
- Do not allow this product to drift onto non-target areas. Drift may result in illegal residues or injury to nontarget species. Risk of exposure to sensitive areas can be reduced by applying this product when the wind direction is away from the sensitive area.
- Do not apply when the weather conditions may cause drift.

- Avoid application when the temperature is high and/or the humidity is low. These conditions increase the evaporation of spray droplets and the likelihood of drift to aquatic areas
- Do not apply when wind speed or wind gusts are greater than 15 mph
- Do not apply when wind speed is below 2 mph because wind direction will vary and there is a high potential for inversion
- Observe the following precautions when using ground application to spray tree crops in the vicinity of aquatic areas such as lakes, reservoirs, permanent streams, marshes, potholes, natural ponds, estuaries, or commercial fish ponds
  - Do not apply Solvigo Miticide/Insecticide when weather conditions favor drift to aquatic areas
  - Do not apply within 110 ft upwind of aquatic areas or when wind speed is above 8 mph
  - Spray last 3 rows windward of aquatic areas using nozzles on one side only, with spray directed away from the aquatic areas
  - Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows

### **Spray Drift Precautions for Aerial Application**

#### **Drift Management Requirements**

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

#### **• Outermost Nozzle Distance**

The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor

#### **• Nozzle Direction**

Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees

#### **• Maximum Wind Speed**

Do not apply when wind speed is greater than 15 mph

• **Droplet Size**

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions. (See **Wind, Temperature and Humidity** and **Temperature Inversions** )

• **Controlling Droplet Size**

**Volume**

Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

**Pressure**

Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

**Number of Nozzles**

Use the minimum number of nozzles that provide uniform coverage.

**Nozzle Orientation**

Orienting nozzles so that the spray is released parallel to the air stream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.

**Nozzle Type**

Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid-stream nozzles oriented straight back produce the largest droplets and the lowest drift.

• **Boom Length**

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

• **Application Height**

Applications should not be made at a height greater than 10 ft above the top of the target plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

- **Swath Adjustment**

When applications are made with a cross wind the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind.

- **Wind**

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application must be avoided below 2 mph due to variable wind direction and high inversion potential.

**NOTE** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

- **Temperature and Humidity**

To compensate for evaporation when applying Solvigo Miticide/Insecticide in low relative humidity, set up equipment to produce larger droplets. Evaporation of droplets is most severe when conditions are both hot and dry.

- **Temperature Inversions**

Solvigo Miticide/Insecticide must not be applied during a temperature inversion because the potential for drift is high. Temperature inversions restrict vertical air mixing, and this causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds that are common during inversions. Temperature inversions are characterized by temperatures that increase with altitude and are common on nights with limited cloud cover and light to no wind. Inversions begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, the movement of smoke from a ground source or an aircraft smoke generator can also identify inversions. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

## **Resistance Management**

Some insect and mite pests are known to develop resistance to products after repeated use. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area. Syngenta encourages responsible product stewardship to ensure effective long-term control of the insects on this label.

If resistance to this product develops in your area this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect or mite may be present. If you experience difficulty with control and resistance is a reasonable cause immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

Solvigo Miticide/Insecticide contains a Group 6 Insecticide (abamectin, belonging to the mectin class of chemistry) and a Group 4A insecticide (thiamethoxam, belonging to the neonicotinoid class of chemistry). Insect or mite biotypes with acquired or inherent resistance to Group 6 or Group 4A insecticides may eventually dominate the population if Group 6 or Group 4A insecticides are used repeatedly as the predominant method of control for targeted species. This may result in partial or total loss of control of those species by Solvigo Miticide/Insecticide or other Group 6 or Group 4A insecticides.

**In order to maintain susceptibility to these classes of chemistry**

- Avoid using Group 6 and/or Group 4A insecticides exclusively for season-long control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, apply Solvigo Miticide/Insecticide or other Group 6 and/or Group 4A insecticides using a "treatment window" approach. A treatment window is a period of time as defined by the stage of crop development and/or the biology of the pests of concern. Within the treatment window depending on the length of residual activity, there may either be single or consecutive applications (seed treatment, soil foliar, unless otherwise stated) of the Group 6 and/or Group 4A insecticides. Do not exceed the maximum Solvigo Miticide/Insecticide allowed per growing season. Following a treatment window of Group 6 or Group 4A insecticides, rotate to a treatment window of effective products with a different mode of action before using additional applications of Group 6 or Group 4A insecticides.
- A treatment window rotation, along with other IPM practices for the crop and use area, is considered an effective use strategy for preventing or delaying an insect or mite pest's ability to develop resistance to these classes of chemistry.
- If resistance is suspected, do not reapply Solvigo Miticide/Insecticide or other Group 6 or Group 4A insecticides.

**Other Resistance Management (IRM) practices include but are not limited to**

- Incorporating IPM techniques into your insect or mite control program
- Avoiding treatment of successive generations of a target pest with Solvigo Miticide/Insecticide
- Monitoring treated insect populations for loss of field efficacy
- Using tank mixtures or premixes with insecticides or miticides from a different target site of action group as long as the involved products are all registered for the same crop outlet and effective rates are applied
- Using labeled rates at the specified spray intervals
- Using non-chemical alternatives such as beneficial arthropods
- Using various cultural practices

**For additional information on Resistance Management**

- Contact your local extension specialist certified crop advisor and/or product manufacturer for additional insect resistance management recommendations
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org/>

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**CROP USE DIRECTIONS**

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**Pollinator Precautions**

- Solvigo Miticide/Insecticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds
- Do not apply Solvigo Miticide/Insecticide or allow it to drift to blooming crops or weeds if bees are foraging in/or adjacent to the treatment area. This is especially critical if there are adjacent crops or orchards that are blooming (Refer to **Spray Drift Precautions** for additional information )
- **After a Solvigo Miticide/Insecticide application, wait at least 5 days before placing beehives in the treated field**
- If bees are foraging in the ground cover and it contains any blooming plants or weeds always remove flowers before making a Solvigo Miticide/Insecticide application. This can be accomplished by mowing, disking, mulching, flailing, or applying a labeled herbicide
- Consult with your local cooperative extension service or state agency responsible for regulating pesticide use for additional pollinator safety practices



**GRAPES**

Apply Solvigo Miticide/Insecticide using conventional ground sprayers calibrated to deliver sufficient water for thorough coverage. Thorough coverage is essential for good spider mite and insect control. Do not spray alternate rows. Solvigo Miticide/Insecticide must be applied to both sides of each row for maximum coverage.

**Grapes**

Pests	fl oz /A	Instructions
Japanese Beetle Mealybugs Pacific spider mite Sharpshooters Twospotted spider mite Variegated leafhopper Western grape leafhopper Western grapeleaf skeletonizer Willamette spider mite	5.0 -- 8.0	<ul style="list-style-type: none"> <li>• To avoid illegal residues Solvigo Miticide/Insecticide <b>must</b> be mixed with a non-ionic activator type wetting, spreading and/or penetrating adjuvant. Do not use binder sticker type adjuvants. (See <b>Use Information</b> and <b>Use Restrictions</b> )</li> <li>• Use 5.0 – 6.5 fl oz /A for low to moderate infestations and 7.0 – 8.0 fl oz for high infestations</li> <li>• Repeat application, if needed. (See <b>Use Restrictions</b> )</li> <li>• <b>Spider mites</b> Apply when mites first appear but before motiles exceed 5 per leaf</li> <li>• <b>Western grapeleaf skeletonizer</b> Apply Solvigo Miticide/Insecticide when larvae are first observed. For optimum control, apply shortly after egg hatch</li> </ul>

## Use Restrictions – Grapes

- **PHI** Do not apply within **28 days** of harvest
- **Adjuvant Requirement** To avoid illegal residues, Solvigo Miticide/Insecticide **must** be mixed with a non-ionic activator type wetting, spreading and/or penetrating adjuvant (See **Use Information**) approved for use on grapes. Although Solvigo Miticide/Insecticide has been tested in combination with a range of non-ionic activator type wetting, spreading, and/or penetrating adjuvants for safety to grapes, it is impossible to test on all grape varieties under the variety of conditions that could cause crop injury. Therefore, when using Solvigo Miticide/Insecticide carefully follow the **Directions for Use** and **Precautions** on the adjuvant label and in official spray guides. Do not use binder or sticker type adjuvants.
- **Application Method** Ground application only
- **Amount of Water**
  - Do not apply in less than 50 gal of water/A with conventional ground application equipment
  - When using an electro-static sprayer less than 50 gal of water/A can be used however, do not use less than 5 gal of water/A
- **Maximum Amount per Application** Do not apply more than 8.0 fl oz /A of Solvigo Miticide/Insecticide or more than 0.019 lb ai /A of any foliar-applied abamectin-containing products or more than 0.055 lb ai /A of any foliar-applied thiamethoxam-containing products per application
- **Application Interval** If a second application is necessary, wait at least 21 days before repeating application of Solvigo Miticide/Insecticide or any foliar-applied product containing abamectin. Wait at least 14 days before repeating application of any other foliar-applied product containing thiamethoxam.
- **Number of Applications** Do not make more than 2 applications of Solvigo Miticide/Insecticide or any foliar-applied abamectin-containing product per growing season.
- **Maximum Amount per Season** Do not apply more than 16.0 fl oz /A of Solvigo Miticide/Insecticide or more than 0.038 lb ai /A of any foliar-applied abamectin-containing products or more than 0.11 lb ai /A of any foliar-applied thiamethoxam-containing products per growing season.
- **Grazing** Do not allow livestock to graze in treated vineyards.

Refer to **Pollinator Precautions** section

Refer to **Resistance Management** section

**TUBEROUS AND CORM VEGETABLES CROP SUBGROUP (Crop Subgroup 1C)**

Crops in this subgroup are arracacha, arrowroot, artichoke, Chinese, artichoke, Jerusalem, canna, edible, cassava (bitter and sweet), chayote (root), chufa, dasheen, ginger, leren, potato, sweet potato, tanier, turmeric, yam bean, and yam (true)

For control of Colorado potato beetle Flea beetle species (adults) *Liriomyza* leafminers, Potato leafhopper, Potato psyllid, and Spider mites

Mix with water as indicated below Thorough coverage of the crop canopy is essential for optimum results Inadequate coverage can result in reduced control Apply Solvigo Miticide/Insecticide using ground application equipment or aircraft

**Note** For best control of mites apply Solvigo Miticide/Insecticide with ground application equipment With aerial application, the resulting level and duration of control of mites could be less than with ground application

**Tuberous and Corm Vegetables Crop Subgroup**

Pests	fl oz /A	Instructions
Colorado potato beetle Flea beetle species (adults) <i>Liriomyza</i> leafminers Potato leafhopper Potato psyllid Spider mites	5 -- 8	<ul style="list-style-type: none"> <li>• To avoid illegal residues Solvigo Miticide/Insecticide <b>must</b> be mixed with a non-ionic activator type wetting spreading and/or penetrating adjuvant Do not use binder-sticker type adjuvants (See <b>Use Information</b> and <b>Use Restrictions</b> )</li> <li>• Use 5 -- 7 fl oz /A for low to moderate infestations and 8 fl oz /A for severe infestations</li> <li>• Insect and spider mite control can be reduced if Solvigo Miticide/Insecticide is used in combination with a sticker or binder type product such as Bravo® Weather Stik®</li> <li>• <b>Colorado potato beetle</b> Make the first application after approximately 50% of the egg masses have hatched and larvae are present If 2 applications are needed limit them to a single Colorado potato beetle generation per crop Do not make more than 2 applications per crop (See <b>Use Restrictions</b> )</li> <li>• <b>Flea beetles</b> Make the first application when adults are first observed Repeat applications as needed to maintain control (See <b>Use Restrictions</b> )</li> <li>• <b><i>Liriomyza</i> leafminers</b> Make the first application when adult flies are first observed Repeat applications as needed to maintain control (See <b>Use Restrictions</b> )</li> <li>• <b>Potato leafhopper</b> Make the first application when leafhoppers are first observed Repeat applications as needed to maintain control (See <b>Use Restrictions</b> )</li> <li>• <b>Potato psyllid</b> Make applications within a locally recommended potato psyllid management program Repeat applications as recommended within the local program to maintain control (See <b>Use Restrictions</b> )</li> <li>• <b>Spider mites</b> Make the first application when mites first appear Repeat application as needed to maintain control (See <b>Use Restrictions</b> )</li> </ul>

### Use Restrictions – Tuberos and Corm Vegetables Crop Subgroup

- **PHI** Do not apply within **14 days** of harvest
- **Adjuvant Requirement** To avoid illegal residues, Solvigo Miticide/Insecticide **must** be mixed with a non-ionic activator type wetting, spreading and/or penetrating adjuvant (See **Use Information**) approved for use on crops in the tuberos and corm vegetables crop subgroup Carefully follow the Directions for Use and Precautions on the adjuvant label and in official spray guides See the **Directions for Use** table above for application instructions Do not use binder or sticker type adjuvants
- **Application Method** Ground or aerial application permitted, however, do not apply with aircraft in New York State
- **Amount of Water** Do not apply in less than 20 gal of water/A with ground application equipment Do not apply in less than 5 gal of water/A with aircraft Under conditions such as high pest populations dense foliage or adverse application conditions (such as high temperatures), use a greater volume of water to ensure adequate coverage
- **Maximum Amount per Application** Do not apply more than 8 fl oz /A of Solvigo Miticide/Insecticide or more than 0.019 lb ai /A of any foliar-applied abamectin-containing products or more than 0.047 lb ai /A of any foliar-applied thiamethoxam-containing product per application
- **Application Interval** Wait at least 7 days before repeating application of Solvigo Miticide/Insecticide or any other foliar-applied abamectin- or thiamethoxam-containing products
- **Number of Applications** Do not make more than 2 sequential applications of Solvigo Miticide/Insecticide or any other foliar-applied abamectin-containing product
- **Maximum Amount per Crop**
  - For spider mite or Colorado potato beetle control, do not apply more than 16 fl oz /A of Solvigo Miticide/Insecticide or more than 0.038 lb ai /A of any other foliar-applied abamectin-containing product per crop
  - For flea beetle, leafhopper, leafminer or potato psyllid, do not apply more than 20.0 fl oz /A of Solvigo Miticide/Insecticide or more than 0.056 lb ai /A of any other foliar-applied abamectin-containing product per crop or more than 0.094 lb ai /A of any other foliar-applied thiamethoxam-containing product per crop
- **Grazing** Do not allow livestock to graze or feed treated foliage to livestock

Refer to **Pollinator Precautions** section

Refer to **Resistance Management** section

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**STORAGE AND DISPOSAL**

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

**Pesticide Storage**

Store in a tightly closed container in a cool, dry place

**Pesticide Disposal**

Pesticide waste may be hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control agency or the Hazardous Waste representative at the nearest EPA regional Office for guidance.

**Container Handling**

Non-refillable container. Do not reuse or refill this container. Triple 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. 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.

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Solvigo™, Bravo® Weather Stik®, the ALLIANCE FRAME the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a Syngenta Group Company

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For non-emergency (e.g. current product information) call  
Syngenta Crop Protection at 1-800-334-9481

Manufactured for  
Syngenta Crop Protection LLC  
P O Box 18300  
Greensboro, North Carolina 27419-8300

SCP RUUN(draft new product-b)

230e26

(Non-detachable Container Label)

**RESTRICTED USE PESTICIDE**  
 TOXIC TO FISH, MAMMALS AND AQUATIC ORGANISMS  
 FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR  
 PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES  
 COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION

Sale, Use, and Distribution of this Product in Nassau and Suffolk Counties in the State of New York is Prohibited

**Solvigo™ Miticide/Insecticide**

**GROUP 6 | 4A INSECTICIDES**

Active Ingredient	
Abamectin <sup>1</sup>	3.43%*
Thiamethoxam <sup>2</sup>	6.86%*
Other Ingredients	89.71%
<b>Total</b>	<b>100.00%</b>

<sup>1</sup>CAS No 71751-41-2

<sup>2</sup>CAS No 153719-23-4

\*1 gal contains 0.3 lb abamectin and 0.6 lb thiamethoxam formulated as a suspension concentrate

**KEEP OUT OF REACH OF CHILDREN**

**WARNING/AVISO**

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)

See additional precautionary statements and directions for use in booklet

**Chemigation** Do not apply this product through any type of irrigation system

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

EPA Reg No 100-RUUN  
EPA Est XXXX

SCP RUUN(draft new product-b)

Net Contents

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**PRECAUTIONARY STATEMENTS**


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**Hazards to Humans and Domestic Animals****WARNING/AVISO**

May be fatal if swallowed or inhaled Do not breathe spray mist Harmful if absorbed through the skin Causes moderate eye irritation Avoid contact with skin, eyes, or clothing Wash thoroughly with soap and water after handling and before eating, drinking chewing gum, using tobacco, or using the toilet Remove and wash contaminated clothing before reuse

<b>FIRST AID</b>	
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably by mouth-to-mouth, if possible</li> <li>• Call a poison control center or doctor for further treatment advice</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice</li> <li>• Have person sip a glass of water if able to swallow</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor</li> <li>• Do not give anything by mouth to an unconscious person</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
<b>NOTE TO PHYSICIAN</b>	
<p>Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular tremors Toxicity following accidental ingestion of this product can be minimized by early administration of chemical adsorbents (e g , activated charcoal)</p> <p>If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements</p> <p>In severe cases, observations should continue for at least several days until clinical condition is stable and normal Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure</p>	



Have the product container or label with you when calling a poison control center or doctor or going for treatment
<b>HOT LINE NUMBER</b> For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill Leak, Fire or Accident), Call <b>1-800-888-8372</b>

**Refer to booklet for PPE**

**Environmental Hazards**

This pesticide is toxic to fish, wildlife and aquatic invertebrates

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 apply when weather conditions favor drift from target areas Do not contaminate water when disposing of equipment wash water or rinsate This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging in/or adjacent to the treatment area

Use of this product may pose a risk to threatened and endangered species of fish, amphibians, crustaceans (including fresh water shrimp), and insects All use of this product in the state of California should comply with the recommendations of the California Endangered Species Project Before using this product in California consult with your county agriculture commissioner to determine use limitations that apply in your area

**Surface Water Advisory**

This product may impact surface water quality through spray drift and runoff of rain water This is especially true for poorly draining soils and soils with shallow ground water This product is classified as having high potential for reaching surface water via runoff for several months after application A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of thiamethoxam water from runoff water and sediment Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours (See manual at the following Internet address

[http //www wsi nrcs usda gov/products/W2Q/pest/core4 html \)](http://www.wsi.nrcs.usda.gov/products/W2Q/pest/core4.html)

**Ground Water Advisory**

Thiamethoxam has properties and characteristics associated with chemicals detected in ground water This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow

## STORAGE AND DISPOSAL

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### **Pesticide Storage**

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Non-refillable container. Do not reuse or refill this container. Triple 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 ¼ 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. 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.

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Manufactured for  
Syngenta Crop Protection, LLC  
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Greensboro, North Carolina 27419-8300

SCP RUUN(draft new product-b)

Solvigo (draft new product) – pl – 11/23/11  
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Solvigo RUUN (draft new product b) CLEAN – pl – 6/13/12  
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