

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



OFFICE OF
PREVENTION, PESTICIDES,
AND TOXIC SUBSTANCES

March 31, 2009

Timothy Wilson
Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, NC 27419

Dear Mr. Wilson:

Subject: (1) Amended labeling to add directions for use on the citrus crop group
(2) Supplemental label for citrus crop group
Platinum® Insecticide
EPA Registration No. 100-939
EPA Decision No. 386464
Your submission dated November 19, 2007

The proposed labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable with the following comments:

Full Label

- On page 9, under the Chemigation section, insert the word "only" in the second sentence so it reads, "This product may only be applied through..."
- On page 10, revise the heading "Directions for All Recommended Types of Irrigation Systems" so it reads, "Directions for All Specified Types of Irrigation Systems."
- On page 10, revise the heading "Operating Instructions for All Recommended Types of Irrigation Systems" so it reads, "Operating Instructions for All Specified Types of Irrigation Systems."
- On page 13, under the Calibration and Application Instructions section, revise the first sentence so it reads, "Platinum must be applied under the schedule specified in the Crop Use Directions, not according to the irrigation schedule, unless the events coincide."

- FOR ALL CROPS, move the 'Maximum Platinum Allowed per Growing Season' bullet so it appears as the first bullet under the Use Restrictions section.
- Under the Crop Use Directions for the Citrus Fruit Crop Group, delete 'White Sapote.'
- Under the Citrus Fruit Crop Group heading, delete the asterisk and corresponding note (i.e. "** and other cultivars and/or hybrids of these).
- Under the Citrus Fruit directions for use, correct the spelling of "growing" in the 'Maximum Platinum Allowed per Growing Season' bullet.
- Under the Citrus Fruit directions for use, in the Pollinator Precautions section, bold the following text: "After a platinum application, wait at least 5 days before placing beehives in the treated field."

Supplemental Label


- On the supplemental label, the sentence "All applicable directions...are to be followed" must be revised to read, "All applicable directions...must be followed."
- Under the Crop Use Directions, delete 'White Sapote.' White sapote is not currently covered by Crop Group 10.
- Under the Citrus Fruit Crop Group heading, delete the asterisk and corresponding note (i.e. "** and other cultivars and/or hybrids of these). Other cultivars and hybrids are not currently covered by Crop Group 10.
- On the supplemental label, move the 'Maximum Platinum Allowed per Growing Season' bullet so it appears as the first bullet under the Use Restrictions section.
- Correct the spelling of "growing" in the 'Maximum Platinum Allowed per Growing Season' bullet.
- Bold the following text: "After a Platinum application, wait at least 5 days before placing beehives in the treated field."

In addition, as a condition of registration, you must submit the following within 12 months from the date of this letter:

- Whole Sediment Acute Toxicity Test for Freshwater Invertebrates (850.1735): A 28-day study measuring survival, growth, and emergence of *Chironomus riparius* that have been exposed to pesticide-spiked sediment.

- Field Test for Pollinators (850.3040): Field studies at maximum proposed label rates using a crop attractive to bees (e.g., pears or apples) for seed treatment, foliar, and soil applications. These three studies must be conducted according to EPA-approved protocols and must examine the exposure and effects to honey bee adults and brood. The studies must also measure the amount of thiamethoxam translocated to the nectar and pollen of the target crop and potential adverse effects, including sublethal effects.
- Residue Analytical Method (860.1340): A revised version of Method AG-675 which includes the full extraction steps for plant and livestock commodities, including the microwave extraction step for liver. (The revised method will be forwarded to the Food and Drug Administration for inclusion in PAM Vol. II.)
- Immunotoxicity Study (870.7800): This study is now required under the new 40 CFR Part 158 data requirements.

Stamped copies are enclosed for your records. Please submit two copies of your final printed labeling before you release the product for shipment. Your release for shipment of the product constitutes acceptance of these conditions. If these conditions 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 by phone at: (703) 308-8735, or by email at: chao.julie@epa.gov.

Regards,

Venus Eagle
Insecticide-Rodenticide Branch
Registration Division (7505P)

Enclosure

4/43

SUPPLEMENTAL LABEL



Syngenta Crop Protection, Inc.
P.O.Box 18300
Greensboro, NC 27419-8300

SUPPLEMENTAL LABEL FOR PLATINUM® INSECTICIDE FOR:
• **DIRECTIONS FOR USE ON THE CITRUS CROP GROUP**

Active Ingredient:	
Thiamethoxam ¹	21.6%
Other Ingredients:	78.4%
Total:	100.0%

¹CAS No. 153719-23-4

Platinum is a soluble concentrate containing 2 pounds of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

EPA Reg. No. 100-939

SCP 939S-L3

All applicable directions, restrictions and precautions on the EPA-registered label are to be followed.

Before using Platinum Insecticide, as permitted according to this supplemental label, read and follow all applicable directions, restrictions, and precautions on the EPA registered label on or attached to the pesticide product container. This Supplemental Labeling contains revised use instructions and or restrictions that may be different from those that appear on the container label. This Supplemental Labeling must be in the possession of the user at the time of pesticide application. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

ACCEPTED
With COMMENTS
In EPA Letter Dated:

MAR 31 2009

Under the Federal Insecticide, Fungicide and Rodenticide Act, As amended, for the pesticide Registered under EPA Reg. No:

100-939

DIRECTIONS FOR USE

CROP USE DIRECTIONS

Crop	Pest	Rate Per Acre Per Application
Citrus Fruit Crop Group* including: Calamondin Citrus citron Citrus hybrids (includes chironja, tangelo, & tangor) Grapefruit Kumquat Lemon Lime Mandarin (tangerine) Orange, sour Orange, sweet Pummelo Satsuma mandarin White Sapote	Aphids Armored scales Asian citrus psyllid Citrus Blackfly Diaprepes root weevil larvae Leafhoppers Citrus Leafminer Mealybugs Root weevils Sharpshooters Soft Scales Thrips Whiteflies	8.0 – 11.0 fl. oz./A

* and other cultivars and/or hybrids of these.

Use Restrictions:

- **Application Timing:** Apply before pests reach damaging levels. Scout fields and treat again if populations rebuild to potentially damaging levels.
- **Application Rate:** Use lower rates for short residual control and higher rates for long residual control.
- **Application Methods:**
 - **Soil Surface Band:** Apply a surface band on each side of the row out to the plant canopy drip line or within the vegetation-free herbicide strip. After the application, apply sufficient irrigation to thoroughly wet the root zone.
 - **Chemigation:** Apply into the root zone through low pressure drip, trickle, micro-sprinkler or equivalent equipment. After the application, apply sufficient irrigation to thoroughly wet the root zone.
 - **Drench:** Apply to the base of the tree as a drench around the trunk of the tree and outward in order to cover the tree's root zone. Do not exceed one quart total solution per tree. This application should be used only on trees up to 8 feet in height.
- **Pre-Harvest Interval (PHI):** 0 days
- **Maximum Platinum Allowed per Growing Season:** Do not exceed 11 fl. oz./Acre (0.172 lb. a.i./A) of Platinum or 0.172 lb. a.i. of thiamethoxam-containing products per acre per growing season.
- **Pollinator Precautions:** Platinum is highly toxic to bees exposed to direct treatment or residues on blooming crops. Do not apply during pre-bloom or during bloom when bees are actively foraging. Do not apply Platinum or allow it to drift to blooming crops if bees are visiting the treatment area. This is especially critical if there are adjacent orchards that are blooming. After a Platinum 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 an application. This may be accomplished by mowing, disking, mulching, flailing, or applying a labeled herbicide. Consult with your local

6/43

cooperative extension service or state agency responsible for regulating pesticide use for additional pollinator safety practices.

Refer to Resistance Management section.

Platinum® and the Syngenta logo are trademarks of a Syngenta Group Company
© 2009 Syngenta
Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, North Carolina 27419-8300
Plat 939S-L3(supplemental citrus)clean-lg-2-11-09

7/43

(Booklet)

Platinum®

Insecticide

GROUP 4A INSECTICIDE

For control of certain insect pests infesting listed crops

Active Ingredient:	
Thiamethoxam ¹	21.6%
Other Ingredients:	78.4%
Total:	100.0%

¹CAS No. 153719-23-4

Platinum is a soluble concentrate containing 2 pounds of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-939

Product of XXXX
Formulated in the USA

EPA Est. XXXXX

SCP 939A-L(draft citrus) [2 quarts, 8 fluid ounces (72 fl. oz.)]

SCP 939A-L (draft citrus) [1 pint (16 fl. oz.)]

SCP 939A-L (draft citrus) [2.5 gals. (320 fl. oz.)]

1 pint (16 fl. oz.)

2 quarts, 8 fluid ounces (72 fl. oz.)

2.5 gallons (320 fl. oz.)

Net Contents

**ACCEPTED
With COMMENTS
In EPA Letter Dated:
MAR 31 2009**

Under the Federal Insecticide, Fungicide
and Rodenticide Act, As amended, for the
pesticide Registered under EPA Reg. No:

100-939

FIRST AID	
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
NOTE TO PHYSICIAN	
There is no specific antidote if Platinum is ingested. Induce emesis or lavage stomach. Treat symptomatically.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER	
For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing vapor or spray mist. Wash

thoroughly with soap and water after handling, and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment

Applicators and other handlers must wear:

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

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

This pesticide is toxic to wildlife and highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

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 adjacent to the treatment 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**

Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

- **Spray Drift Advisory**

Do not allow this product to drift.

Physical or Chemical Hazards

Do not use, pour, spill, or store near heat or open flame.

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, Inc. 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

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read entire label before using this product.

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.

Do not use Platinum in nurseries, plant propagation houses, greenhouses, or on any plants grown for use as transplants except tobacco.

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.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material – 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 INSECT CONTROL, AND/OR ILLEGAL RESIDUES.

USE INFORMATION

Platinum controls many sucking and chewing insects through ingestion when applied to the crops listed on this label.

For best performance, always follow these directions:

- Platinum should be applied in a manner which allows the insecticide to be absorbed by plant roots. This may be accomplished with a variety of application methods, as indicated in this label. Although Platinum is rapidly taken up by plant roots and rapidly moves throughout the plant, the use of sufficient water volume will ensure that the chemical contacts the roots, resulting in optimal uptake and performance.
- Platinum is a selective insecticide, which should have minimal impact on beneficial arthropods, and its use is compatible with integrated pest management programs.
- Platinum has a wide margin of plant safety when used in accordance with this label.

Resistance Management

Some insect 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.

Platinum contains a Group 4A insecticide (thiamethoxam, belonging to the neonicotinoid class of chemistry). Insect biotypes with acquired or inherent resistance to Group 4A insecticides may eventually dominate the insect population if 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 Platinum or other Group 4A insecticides.

In order to maintain susceptibility to this class of chemistry in insect species with high resistance development potential, it is recommended that for each crop season:

1. Only a single, soil application of Platinum be made.
2. Foliar applications of Group 4A insecticides not be made following a long residual, soil application of Platinum, or other seed or soil applied Group 4A insecticides.

Other Insect Resistance Management (IRM) practices include:

- Incorporating IPM techniques into your insect control program.
- Monitoring treated insect populations for loss of field efficacy.

- Using tank-mixtures or premixes with insecticides 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.

For additional information on Insect 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/>.

APPLICATION PROCEDURES AND SPRAY EQUIPMENT

Soil Application

Spray nozzles or metering orifices should provide accurate and uniform spray deposition. Platinum may be applied in-furrow at-planting, as a lay-by shanked application, or as a banded preemergence or postemergence application. When making postemergence applications, direct the application at the base of the plant for optimum root uptake. To help insure accuracy, calibrate sprayer before each use. Applications using sufficient water volume to provide thorough and uniform coverage generally provide the most effective pest control. For information on spray equipment and calibration, consult sprayer manufacturers and/or State Extension Service specialists.

Do not apply Platinum with aerial equipment.

Dry Bulk Granular Fertilizer – Potatoes only: Many dry bulk fertilizers may be impregnated or coated with Platinum and used to control insects in potatoes. When applying Platinum with dry bulk granular fertilizer, follow all directions for use and precautions on the Platinum label contained in the potato direction for use section regarding rates per acre, pests controlled, and rotational crop restrictions.

All individual state regulations relating to dry bulk granular fertilizer blending, registration, labeling, and application, are the responsibility of the individual and/or company selling the insecticide/fertilizer mixture.

Prepare the insecticide/fertilizer mixture by using any closed drum, belt, ribbon, or other commonly used dry bulk fertilizer blender. Nozzles used to spray Platinum onto the fertilizer must be placed to provide uniform spray coverage. Care should be taken to aim the spray onto the fertilizer only, avoiding the walls of the blender. Do not pour or dribble Platinum directly from the product container onto the fertilizer.

Blender Mixing Directions

Fill the blender with the required amount of dry bulk granular fertilizer to be used. Start the blender. Spray the Platinum directly onto the moving fertilizer. Allow the mixture to

blend for at least 5 minutes or until uniform. Spread the insecticide/fertilizer mixture as soon as possible.

Calculate the amount of Platinum by the following formula:

$$\frac{\text{oz./acre Platinum}}{\text{lb./acre Fertilizer}} \times 2,000 \text{ lb./ton} = \text{oz./ton Platinum}$$

Important: When more than 1,000 lb./A of dry bulk granular fertilizer is to be applied, mix Platinum with water to improve coverage on the dry fertilizer. Mix one part Platinum with up to 2 parts water [1:2] in a mix tank before application to fertilizer. Use a maximum of 2 qt. liquid per ton of fertilizer.

Precautions: Do not impregnate Platinum on straight unadulterated agricultural limestone, since adsorption will not be achieved. Limestone prills, which contain a binding agent and fertilizer blends containing limestone can be impregnated.

Application: For best results, apply the mixture uniformly to the soil with properly calibrated equipment **immediately** after blending. Non-uniform application of the insecticide/fertilizer mixture may result in unsatisfactory insect control.

Chemigation:

Applications of Platinum alone or in combination with other pesticides registered for application through irrigation systems may be applied in irrigation water at rates specified on this label. This product may be applied through low-pressure micro-sprinkler, drip type irrigation systems or through sprinkler irrigation equipment (center pivot, solid set, hand move or moving wheel irrigation systems - **potatoes only**).

Directions for All Recommended Types of Irrigation Systems

Uniform Water Distribution and System Calibration

The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Dilute Platinum in the solution tank at a ratio of at least 15 parts of water to one part of Platinum. Inject Platinum solution at a ratio of 50:1 or greater. Injecting a larger volume of a more dilute solution will usually allow a more accurate calibration of the metering equipment. Meter the insecticide into the irrigation water during the irrigation cycle.

Using Water from Public Water Systems: DO NOT APPLY PLATINUM THROUGH ANY IRRIGATION SYSTEM PHYSICALLY CONNECTED TO A PUBLIC WATER SYSTEM. Public water system means a system for the provision to the public of piped water for human consumption, if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Platinum may be applied through irrigation systems, which may be **supplied** by a public water system **only if** the water from the public water system is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

Any irrigation system using water supplied from a public water system must also meet the following requirements.

Operating Instructions FOR ALL RECOMMENDED TYPES OF IRRIGATION SYSTEMS

1. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.
2. The system must contain a functional check-valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
6. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
7. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
8. Do not apply when wind speed favors drift beyond the area intended.

Application Instructions – Low Pressure Micro-Sprinkler or Drip Type Irrigation Equipment

Platinum must be applied on the schedule specified in the Crop Use Directions, not according to the irrigation schedule. The following calibration and application techniques are provided for user reference, but do not constitute a warranty of fitness for application through low-pressure micro-sprinkler or drip type irrigation equipment. Users should check with state and local regulatory agencies for potential use restrictions before applying any agricultural chemicals through irrigation equipment.

1. Each run of the irrigation system must be calibrated separately to determine the time it takes water to move through the system and to make sure all emitters in the system are putting out the same amount of water.
2. Only pressure injection or venturi equipment is recommended.
3. Determine the area to be treated in each irrigation run.
4. Measure the output of each of the emitters or drip tubes closest to and farthest from the injection point.
5. For calibration, substitute a concentrated detergent (such as Wisk) for the Platinum mixture in the injector (solution) tank. It is important to use the same volume of soap solution as the planned volume of Platinum solution when calibrating the

system. The detergent will bubble as it leaves the emitters. The time period over which the bubbles occur should be checked for both the closest and farthest emitters. If these times are not within 2 minutes of each other, adjust the dilution ratio and/or the injection rate.

Step-by-Step Calibration and Application Instructions

1. Before starting to calibrate, operate the system until all of the emitters are putting out at equal flow rates or until the system is operating at full pressure.
2. Make up an indicator solution of detergent or fertilizer, using the same rate of indicator as the planned volume of Platinum to be used in the mix.
3. Set the injector to apply the indicator solution at the injection rate to be used in the actual Platinum application.
4. Attach a 12-inch length of flexible tubing over the emitter closest to the injection point, another 12-inch length over the emitter farthest away. Both emitters should be monitored to determine the time intervals that the indicator solutions are observed.
5. Begin injecting the indicator solution. Direct the flow from the flexible tubes into a small container. Begin timing when the indicator solution is first detected. Stop timing when the indicator solutions are no longer detected in the container.
6. If the period of detection of the indicator solution between the near and far emitter is within 2 minutes, comparable coverage will be obtained. If they are not, make adjustments by increasing the dilution ratio, using more water per part of Platinum, or adjust the injector to a slower flow rate.
7. Once the system is calibrated, dilute the needed amount of Platinum with water and any other tank mix partners in the injection tank at a minimum dilution of 15 parts water to 1 part Platinum. Follow the directions for mixing and equipment set up in the **Mixing Procedures** section of this label for complete details.
8. Do not begin to inject Platinum into the system until all emitters are producing equal flow rates, or until the system is at full pressure.
9. Inject the Platinum solution into the system at the beginning of the irrigation set in 1/2 -1 inch of irrigation water.

Application Instructions – Sprinkler irrigation equipment (center pivot, solid set, hand move or moving wheel irrigation systems – Potatoes only)

Platinum alone or in combination with other products which are registered for application through sprinkler irrigation may be applied through irrigation systems. Apply this product through center pivot, solid set, hand move, or moving wheel irrigation systems. Lack of effectiveness or illegal pesticide residues can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Calibration and Application Instructions

Platinum should be applied under the schedule specified in the specific crop use directions, not according to the irrigation schedule unless the events coincide.

In general, set the equipment to apply the minimum amount of water per acre. Run the system at 85 - 90% of the manufacturer's maximum rated travel speed.

The following calibration and application techniques are provided for user reference, but do not constitute a warranty of fitness for application through sprinkler irrigation equipment. Users should check with state and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler irrigation equipment.

Center Pivot Irrigation Equipment

Notes: (1) Use only drive systems that provide uniform water distribution. (2) Do not use end guns when chemigating Platinum through center pivot systems because of non-uniform application. (3) Plug the first nozzle closest to the well-head to protect the water source.

1. Determine the size of the area to be treated.
2. Determine the time required to apply 0.1 – 0.25 inches of water over the area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. Run the system at 80 - 95% of the manufacturer's rated maximum travel speed.
3. Using water, determine the injection pump output when operated at normal line pressure.

4. Determine the amount of Platinum, and any tank mix partners, required to treat the area covered by the irrigation system.
5. Add the required amount of Platinum, any tank mix partners, and sufficient water to meet the injection time requirements to the solution tank. (See **Mixing Procedures** section of this label.)
6. Make sure the system is fully charged with water before starting injection of the Platinum solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
7. Maintain constant agitation in the solution tank during the injection period.
8. Inject the specified amount of Platinum per acre continuously for one complete revolution of the system.
9. Stop the injection equipment after treatment is completed. Continue to operate the system until the Platinum solution has cleared all of the sprinkler heads.
10. Allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water.

Solid Set, Hand Move, and Moving Wheel Irrigation Equipment

1. Determine the acreage covered by the sprinklers.
2. Fill injector solution tank with plain water and calibrate the flow rate of the system to deliver the contents of the tank over a 20-40 minute time interval.
3. Determine the amount of Platinum required to treat the area covered by the irrigation system.
4. Add the required amount of Platinum, and any other tank mix partners, into the same quantity of water used to calibrate the injection period. (See **Mixing Procedures** section of this label.)
5. Operate the system at the same pressure and time interval established during the calibration.
6. Inject specified amount of Platinum per acre for either a 20-40 minute period at the end of a regular irrigation set, or as a 20-40 minute injection as a separate application not associated with a regular irrigation to maximize retention of the insecticide by the foliage.
7. Stop injection equipment after treatment is completed. Continue to operate the system until the Platinum solution has cleared the last sprinkler head. To ensure lines

are flushed and free from remaining pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

MIXING PROCEDURES

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area. Keep product container tightly closed when not in use.

Platinum Alone: Add 1/2 of the required amount of water to the mix tank. With the agitator running, add the Platinum to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the Platinum has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

Platinum + Tank Mixtures: Add 1/2 of the required amount of water to the mix tank. Start the agitator running before adding any tank mix partners. In general, tank mix partners should be added in this order: products packaged in water-soluble packaging, wettable powders, wettable granules (dry flowables), liquid flowables such as Platinum, liquids and emulsifiable concentrates. Make sure each tank mix partner becomes fully dispersed before adding the next product. Provide sufficient agitation while adding the remainder of the water. Maintain agitation until all of the mixture has been applied.

Note: When using Platinum in tank mixtures, add all products in water-soluble packaging to the tank before any other tank mix partner, including Platinum. Make sure the water-soluble packaging is completely dissolved and the product(s) are completely dispersed before adding any other tank mix partner to the tank.

If using Platinum in a tank mixture, observe all directions for use, crop/sites, use rates, dilution ratios, precautions, and limitations that appear on the tank mix product label. Do not exceed any label dosage rate, and follow the most restrictive label precautions and limitations. Do not mix this product with any product that prohibits such mixing. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are labeled.

Compatibility: Platinum is compatible with most commonly used pesticides and nutritional sprays. However, since it is not possible to test all possible mixtures, the user should pre-test to insure the physical compatibility and lack of phytotoxic effect of any proposed mixtures with Platinum. To determine the physical compatibility of Platinum with other products, use a jar test, as described below.

Using a quart jar, add the proportionate amounts of the products to 1 qt. of water. Add wettable powders and water-dispersible granular products first, then liquid flowables,

and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

The crop safety of all potential tank mixes on all crops has not been tested. Before applying any tank mixture not specified on this label, the safety to the target crop should be confirmed.

CROP USE DIRECTIONS

Crop	Pest	Rate Per Acre Per Application
Bushberry Subgroup Blueberry (high and low bush) Currant Elderberry Gooseberry Huckleberry Juneberry Lingonberry Salal	Aphids Grub Complex Japanese Beetle Leafhoppers	5.0 – 12.0 fl. oz./A

Use Restrictions:

- **Application Timing:** Apply after bud-break, but prior to the beginning of bloom (first open blooms).
- **Application Rate:** Use lower rates for short residual control and higher rates for long residual control. See rate conversion chart for rate per 1000 linear ft.
- **Application Method:** Apply a surface band on each side of the row out to the plant canopy drip line or within the vegetation-free herbicide strip (calculated on a broadcast basis, but concentrated in the band). After the application, apply sufficient irrigation to incorporate the product into the plant's root zone, on the same day as the application.
- **Water Volume:** Apply specified dosage in sufficient water volume (10-100 gallons of water /A) to ensure uniform application and incorporation into the soil.
- **Pre-Harvest Interval (PHI):** 75 days
- **Maximum Platinum Allowed per Growing Season:** Do not exceed a total of 12 fl. oz./Acre (0.188 lb. a.i./A) of Platinum or 0.188 lb. a.i. of thiamethoxam containing products per acre per growing season.

Refer to Resistance management section.

Crop	Pest	Rate Per Acre Per Application
Brassica (Cole) Leafy Vegetables		
<p>Head & Stem Brassica Broccoli Brussels sprouts Cabbage Cauliflower Cavalo broccolo Chinese broccoli Chinese cabbage (napa) Chinese mustard cabbage Kohlrabi</p> <p>Leafy Brassica Greens Broccoli raab Chinese cabbage (bok choy) Collards Kale Mizuna Mustard greens Mustard spinach Rape greens</p>	<p>Aphids Flea Beetles Thrips Whiteflies</p>	<p>5.0 – 11.0 fl. oz./A</p>

Use Restrictions:

- **Application Rate:** Use lower rates for short residual control and higher rates for long residual control. See rate conversion chart for rate per 1000 linear ft.
- **Application Methods:** Apply specified dosage in sufficient water volume to ensure uniform application and incorporation into the soil using one of the following methods:
 1. In-furrow spray at the seeding or transplant depth, or a narrow surface band above the seedline during planting. For surface-banded applications, incorporate to the seeding depth with sufficient sprinkle or drip irrigation within 24 hours.
 2. Post seeding, transplant, or hill drench using sufficient water volume to ensure incorporation into the root zone.
 3. In trickle or drip irrigation water.
 4. Shanked into the root zone after establishment or transplanting using fertilizer knives or other similar equipment. After application, incorporate with enough irrigation to move the chemical to the root zone.
- For planting systems where multiple rows are planted on beds, apply Platinum according to one of the above methods.
- **Pre-Harvest Interval (PHI):** 30 days
- **Maximum Platinum Allowed per Growing Season:** Do not exceed a total of 11 fl. oz./Acre (0.172 lb. a.i./A) of Platinum or 0.172 lb. a.i. of thiamethoxam containing products per acre per growing season.

Refer to Resistance Management section.

Crop	Pest	Rate Per Acre Per Application
Citrus Fruit Crop Group* including: Calamondin Citrus citron Citrus hybrids (includes chironja, tangelo, & tangor) Grapefruit Kumquat Lemon Lime Mandarin (tangerine) Orange, sour Orange, sweet Pummelo Satsuma mandarin White Sapote	Aphids Armored scales Asian citrus psyllid Citrus Blackfly Diaprepes root weevil larvae Leafhoppers Citrus Leafminer Mealybugs Root weevils Sharpshooters Soft Scales Thrips Whiteflies	8.0 – 11.0 fl. oz./A

* and other cultivars and/or hybrids of these.

Use Restrictions:

- **Application Timing:** Apply before pests reach damaging levels. Scout fields and treat again if populations rebuild to potentially damaging levels.
- **Application Rate:** Use lower rates for short residual control and higher rates for long residual control.
- **Application Methods:**
 - **Soil Surface Band:** Apply a surface band on each side of the row out to the plant canopy drip line or within the vegetation-free herbicide strip. After the application, apply sufficient irrigation to thoroughly wet the root zone.
 - **Chemigation:** Apply into the root zone through low pressure drip, trickle, micro-sprinkler or equivalent equipment. After the application, apply sufficient irrigation to thoroughly wet the root zone.
 - **Drench:** Apply to the base of the tree as a drench around the trunk of the tree and outward in order to cover the tree's root zone. Do not exceed one quart total solution per tree. This application should be used only on trees up to 8 feet in height.
- **Pre-Harvest Interval (PHI):** 0 days
- **Maximum Platinum Allowed per Growing Season:** Do not exceed 11 fl. oz./Acre (0.172 lb. a.i./A) of Platinum or 0.172 lb. a.i. of thiamethoxam-containing products per acre per growing season.
- **Pollinator Precautions:** Platinum is highly toxic to bees exposed to direct treatment or residues on blooming crops. Do not apply during pre-bloom or during bloom when bees are actively foraging. Do not apply Platinum or allow it to drift to blooming crops if bees are visiting the treatment area. This is especially critical if there are adjacent orchards that are blooming. After a Platinum 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 an application. This may 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.

Refer to Resistance Management section.

Crop	Pest	Rate Per Acre Per Application
Cucurbit Vegetables Chayote Chinese waxgourd Citron melon Cucumber Edible gourd Gherkin <i>Momordica</i> species Muskmelon Pumpkin Squash: summer and winter Watermelon	Aphids Cucumber Beetle ¹ Flea Beetles Leafhoppers Leafminers ¹ Thrips Whiteflies	5 – 11.0 fl. oz./A

Use Restrictions:

- **Application Rate:** Use lower rates for short residual control and higher rates for long residual control. See rate conversion chart for rate per 1,000 linear ft.
- **Application Method:** Apply specified dosage in sufficient water volume to ensure uniform application and incorporation into the soil using one of the following methods:
 1. In-furrow spray at the seeding or transplant depth, or a narrow surface band above the seedline during planting. For surface-banded applications, incorporate to the seeding depth with sufficient sprinkle or drip irrigation within 24 hours.
 2. Post seeding, transplant, or hill drench using sufficient water volume to ensure incorporation into the root zone.
 3. In trickle or drip irrigation water.
 4. Shanked into the root zone after establishment or transplanting using fertilizer knives or other similar equipment. After application, incorporate with enough irrigation to move the chemical to the root zone.
- **Pre-Harvest Interval:** 30 days
- **Maximum Platinum Allowed per Growing Season:** Do not exceed a total of 11 fl. oz./Acre (0.172 lb. a.i./A) of Platinum or 0.172 lb. a.i. of thiamethoxam containing products per acre per growing season.
- **Pest Control:** ¹Suppression

Refer to Resistance Management section.

Crop	Pest	Rate Per Acre Per Application
Fruiting Vegetables Eggplant Groundcherry Pepino Peppers: bell, chili, cooking, pimiento, and sweet Tomatillo Tomato	Aphids Colorado Potato Beetle Flea Beetles Leafhoppers Leafminers ¹ Potato Psyllid Thrips Tomato Pinworm Whiteflies	5 – 11.0 fl. oz./A

Use Restrictions:

- **Application Rate:** Use lower rates for short residual control and higher rates for long residual control. See rate conversion chart for rate per 1,000 linear ft.
- **Application Method:** Apply specified dosage in sufficient water volume to ensure uniform application and incorporation into the soil using one of the following methods:
 1. In-furrow spray at the seeding or transplant depth, or a narrow surface band above the seedline during planting. For surface-banded applications, incorporate to the seeding depth with sufficient sprinkle or drip irrigation within 24 hours.
 2. Post seeding, transplant, or hill drench using sufficient water volume to ensure incorporation into the root zone.
 3. In trickle or drip irrigation water.
 4. Shanked into the root zone after establishment or transplanting using fertilizer knives or other similar equipment. After application, incorporate with enough irrigation to move the chemical to the root zone.
- For planting systems where multiple rows are planted on beds, apply Platinum according to one of the above methods.
- **Pre-Harvest Interval (PHI):** 30 days
- **Maximum Platinum Allowed per Growing Season:** Do not exceed a total of 11 fl. oz./Acre (0.172 lb. a.i./A) of Platinum or 0.172 lb. a.i. of thiamethoxam containing products per acre per growing season.
- **Pest Control:** ¹Suppression

Refer to Resistance Management section

Crop	Pest	Rate Per Acre Per Application
Grapes	<i>Phylloxera</i> spp. Japanese Beetle Leafhoppers Mealybugs Sharpshooters	8.0 – 17.0 fl. oz./A

Use Restrictions:

- **Application Rate:** Use lower rates for short residual control and higher rates for long residual control. See rate conversion chart for rate per 1000 linear ft.
- **Application Method:** Apply specified dosage in sufficient water volume to ensure uniform application and incorporation into the soil using one of the following methods:
 1. Apply a surface band on each side of the row out to the plant canopy drip line or within the vegetation-free herbicide strip (calculated on a broadcast basis, but concentrated in the band). After the application, apply sufficient irrigation to incorporate the product into the plant's root zone, on the same day as the application.
 2. Apply by chemigation into the root zone through low-pressure micro-sprinkler, trickle or drip type irrigation systems.
 3. Hill drench in sufficient water to ensure incorporation into the root zone followed by irrigation.
- **Water Volume:** Apply specified dosage in sufficient water volume (10-100 gallons of water /A) to ensure uniform application and incorporation into the soil.
- **Pre-Harvest Interval (PHI):** 60 days
- **Maximum Platinum Allowed per Growing Season:** Do not exceed a total of 17 fl. oz./Acre (0.266 lb. a.i./A) of Platinum or 0.266 lb. a.i. of soil applied thiamethoxam containing products per acre per growing season.

Refer to Resistance Management section.

Crop	Pest	Rate Per Acre Per Application
Hops	Garden Symphylan (<i>Scutigera immaculata</i>) Hop Aphid (<i>Phorodon humuli</i>) Root Weevils	8.0 fl. oz./A

Use Restrictions:

- **Application Rate:** See rate conversion chart for rate per 1000 linear ft.
- **Application Method:** Apply specified dosage in sufficient water volume to ensure uniform application and incorporation into the soil using one of the following methods:
 1. Apply a surface band on each side of the row out to the plant canopy drip line or within the vegetation-free herbicide strip (calculated on a broadcast basis, but concentrated in the band). After the application, apply sufficient irrigation to incorporate the product into the plant's root zone, on the same day as the application.
 2. Apply by chemigation into the root zone through low-pressure micro-sprinkler, trickle or drip type irrigation systems.
 3. Hill drench in sufficient water to ensure incorporation into the root zone followed by irrigation.
- **Pre-Harvest Interval (PHI):** 65 days
- **Maximum Platinum Allowed per Growing Season:** Do not exceed a total of 8 fl. oz./Acre (0.125 lb. a.i./A) of Platinum or 0.125 lb. a.i. of thiamethoxam containing products per acre per growing season.

Refer to Resistance Management section.

Crop	Pest	Rate Per Acre Per Application
Leafy Vegetables Amaranth Arugula Cardoon Celery Celtuce Chinese celery Chrysanthemum: Edible-leaved & Garland Corn Salad Cress: Garden & Upland Dandelion Dock Endive Fennel Lettuce: Head & Leaf Orach Parsley Purslane: Garden & Winter Radicchio Rhubarb Spinach (including New Zealand & Vine) Swiss chard	Aphids Flea Beetles Leafhoppers Leafminers ¹ Whiteflies	5.0 – 11.0 fl. oz./A

Use Restrictions:

- **Application Rate:** Use lower rates for short residual control and higher rates for long residual control. See rate conversion chart for rate per 1000 linear ft.
- **Application Method:** Apply specified dosage in sufficient water volume to ensure uniform application and incorporation into the soil using one of the following methods:
 1. In-furrow spray at the seeding or transplant depth, or a narrow surface band above the seedline during planting. For surface-banded applications, incorporate to the seeding depth with sufficient sprinkle or drip irrigation within 24 hours.
 2. Post seeding, transplant, or hill drench using sufficient water volume to ensure incorporation into the root zone.
 3. In trickle or drip irrigation water.
 4. Shanked into the root zone after establishment or transplanting using fertilizer knives or other similar equipment. After application, incorporate with enough irrigation to move the chemical to the root zone.
- For planting systems where multiple rows are planted on beds, apply Platinum according to one of the above methods.
- **Pre-Harvest Interval (PHI):** 30 days
- **Maximum Platinum Allowed per Growing Season:** Do not exceed a total of 11 fl. oz./Acre (0.172 lb. a.i./A) of Platinum or 0.172 lb. a.i. of thiamethoxam containing products per acre per growing season.
- **Pest Control:** ¹Suppression

Refer to Resistance Management section.

Crop	Pest	Rate Per Acre Per Application
Root Vegetables Subgroup (Except Sugarbeets)		
Radish	Aphids Flea Beetles Leafhoppers Whiteflies	5.0 – 6.5 fl. oz./A
Carrot Celeriac Chicory Edible Burdock Garden Beet Ginseng Horseradish Oriental Radish Parsnip Rutabaga Salsify: Black Salsify Spanish Salsify Skirret Turnip Turnip Rooted Chervil Turnip Rooted Parsley	Aphids Flea Beetles Leafhoppers Whiteflies	5.0 – 12.0 fl. oz./A

Use Restrictions:

- **Application Rate:** Use lower rates for short residual control and higher rates for long residual control. See rate conversion chart for rate per 1000 linear ft.
- **Application Method:** At seeding or within 24 hours of seeding, apply specified dosage in sufficient water volume to ensure uniform application and incorporation into the soil using one of the following methods:
 1. In-furrow spray at the seeding or as a narrow surface band above the seedline during planting. For surface-banded applications, incorporate to the seeding depth with sufficient sprinkle or drip irrigation within 24 hours.
 2. Immediately after seeding using sufficient water volume to ensure incorporation into the seed zone.
 3. In trickle or drip irrigation water.
- For planting systems where multiple rows are planted on beds, apply Platinum according to one of the above methods.
- **Maximum Platinum Allowed per Growing Season:**
 - Radish** - Do not exceed a total of 6.5 fl. oz./Acre (0.1016 lb. a.i./A) of Platinum or 0.063 lb. a.i. of thiamethoxam containing products per acre per growing season.
 - Other Root Vegetables** - Do not exceed a total of 12.0 fl. oz./Acre (0.188 lb. a.i./A) of Platinum or 0.188 lb. a.i. of thiamethoxam containing products per acre per growing season.

Refer to Resistance Management section.

Crop	Pest	Rate Per Acre Per Application
Strawberry	Aphids Grubs Leafhoppers Strawberry Root Weevil Whiteflies	5.0 – 12.0 fl. oz./A

Use Restrictions:

- **Application Rate:** Use lower rates for short residual control and higher rates for long residual control. See rate conversion chart for rate per 1000 linear ft.
- **Application Method:** Apply specified dosage in sufficient water volume to ensure uniform application and incorporation into the soil using one of the following methods:
 1. In-furrow spray at the transplant depth, or a narrow surface band above the transplant during planting. For surface-banded applications, incorporate to root depth with sufficient sprinkle or drip irrigation within 24 hours.
 2. Post transplant drench using sufficient water volume to ensure incorporation into the root zone.
 3. In trickle or drip irrigation water.
 4. As a plant hole treatment, just prior to, or during, transplant.
- **Pre-Harvest Interval:** 50 days
- **Maximum Platinum Allowed per Growing Season:** Do not exceed a total of 12 fl. oz./Acre (0.188 lb. a.i./A) of Platinum or 0.188 lb. a.i. of thiamethoxam containing products per acre per growing season.

Refer to Resistance Management section.

Crop	Pest	Rate Per 1,000 Plants
Tobacco	Aphids	0.5-1.3 fl. oz./1,000 plants
	Flea Beetles Japanese Beetles Tomato Spotted Wilt Virus (TSWV) – Suppression of symptoms	0.8-1.3 fl. oz./1,000 plants
	Thrips (Suppression)	0.8 fl. oz./1,000 plants
	Mole Crickets Thrips Whiteflies Wireworms	1.3 fl. oz./1,000 plants

Use Restrictions:

- **Application Timing:** Make only one soil or tray treatment application per season.
- **Application Rate:** Use lower rates for short residual control and higher rates for long residual control.
- **Application Method:** Apply at transplant using one of the methods described below. Apply specified dosage in sufficient water volume to ensure uniform application using one of the following methods:
 1. **Tray treatment:** Apply to transplants while still in trays. Thoroughly water transplants. Then apply the chemical evenly to the transplants. Immediately after treatment, spray transplants with enough water to wash the chemical off the foliage and into the soil. Set transplants in the field within two days after treatment. During transplanting, workers handling transplants must wear waterproof gloves. **Do not** apply Platinum to float-bed water.
 2. **Soil Treatment:** Mix appropriate amounts of Platinum in water and drench transplants as they are being placed in the ground.
- **Maximum Platinum Allowed per Growing Season:** Do not exceed a total of 8 fl. oz. (0.125 lb. a.i.)/A of Platinum or 0.125 lb. a.i. of soil applied thiamethoxam containing products per acre per growing season.
- **Tomato Spotted Wilt Virus (TSWV)** is vectored by thrips and controlling or suppressing thrips can help to reduce TSWV. Use the higher rate where TSWV pressure is higher.

Refer to Resistance Management section.

Crop	Pest	Rate Per Acre Per Application
Tuberous and Corm Vegetables Arracacha Arrowroot Canna Cassava: bitter and sweet Chayote (root) Chinese artichoke Chufa Dasheen Ginger Jerusalem artichoke Leren Potato Sweet potato Tanier Turmeric Yams Yam bean	Aphids Flea Beetles Colorado Potato Beetle Potato Leafhoppers Potato Psyllid Wireworm (Seed Piece only)	5.0 – 8.0 fl. oz./A

Use Restrictions:

- **Application Timing:** Make only one soil application per season.
- **Application Rate:** Use lower rates for short residual control and higher rates for long residual control. See rate conversion chart for rate per 1,000 linear ft.
- **Application Method:** Apply using one of the following methods:
 1. An in-furrow spray during planting. For best results, spray directly on the seed pieces in the furrow. Apply in sufficient water to ensure good coverage of seed pieces.
 2. Apply specified amount of Platinum impregnated on dry granular fertilizer before or during planting.
 3. Apply at plant emergence. Direct spray at the soil near the base of the plant during the last hilling operation. Incorporate into the root zone with sufficient overhead irrigation within 24 hours.
 4. Apply as a broadcast spray to the soil during the last hilling operation. Incorporate into the root zone with sufficient overhead irrigation within 24 hours.
 5. Apply at plant emergence through overhead chemigation after hilling. Use from 0.10-0.50 inches of water. (For more details: see application through irrigation systems for potatoes in **APPLICATION PROCEDURES AND SPRAY EQUIPMENT** section.)
- **Maximum Platinum Allowed per Growing Season:** Do not exceed a total of 8 fl. oz. (0.125 lb. a.i.) /A of Platinum or 0.125 lb. a.i. of soil applied thiamethoxam containing products per acre per growing season.

Refer to Resistance Management section

Platinum Conversion Chart for Linear Application

Rate Per Acre	Rate in fl. oz. of product per 1,000 linear feet for specified row spacing and rate per acre												Lb. a.i./A
Row Spacing	20"	30"	34"	36"	38"	40"	46"	60"	72"	78"	80"	84"	
Linear Ft./Acre	26,136	17,424	15,374	14,520	13,756	13,068	11,363	8,712	7,260	6,702	6,534	6,223	
5 fl. oz./A	0.19	0.29	0.33	0.34	0.36	0.38	0.44	0.57	0.69	0.75	0.77	0.80	0.079
6 fl. oz./A	0.23	0.34	0.39	0.41	0.44	0.46	0.53	0.69	0.83	0.90	0.92	0.96	0.094
7 fl. oz./A	0.27	0.40	0.46	0.48	0.51	0.54	0.62	0.80	0.96	1.04	1.07	1.12	0.1094
8 fl. oz./A	0.31	0.46	0.52	0.55	0.58	0.61	0.70	0.92	1.10	1.19	1.22	1.29	0.125
9 fl. oz./A	0.34	0.52	0.59	0.62	0.65	0.69	0.79	1.03	1.24	1.34	1.38	1.45	0.1406
10 fl. oz./A	0.38	0.57	0.65	0.69	0.73	0.77	0.88	1.15	1.38	1.49	1.53	1.61	0.1563
11 fl. oz./A	0.42	0.63	0.72	0.76	0.80	0.84	0.97	1.26	1.52	1.64	1.68	1.77	0.1719
12 fl. oz./A	0.46	0.69	0.78	0.83	0.87	0.92	1.06	1.38	1.65	1.79	1.84	1.93	0.1875
13 fl. oz./A	0.50	0.75	0.85	0.90	0.95	0.99	1.14	1.49	1.79	1.94	1.99	2.09	0.2031
14 fl. oz./A	0.54	0.80	0.91	0.96	1.02	1.07	1.23	1.61	1.93	2.09	2.14	2.25	0.2188
15 fl. oz./A	0.57	0.86	0.98	1.03	1.09	1.15	1.32	1.72	2.07	2.24	2.30	2.41	0.2344
16 fl. oz./A	0.61	0.92	1.04	1.10	1.16	1.22	1.41	1.84	2.20	2.39	2.45	2.57	0.25
17 fl. oz./A	0.65	0.98	1.11	1.17	1.24	1.30	1.50	1.95	2.34	2.54	2.60	2.73	0.2656

35/13

36
/43

ROTATIONAL RESTRICTIONS

Treated areas may be replanted immediately following harvest or as soon as practical following the last application with any crop listed on this label or to sorghum, wheat, barley, canola, cotton, legume vegetables, corn, sunflower, mint (peppermint and spearmint), oilseed crops (rapeseed, Indian rapeseed, Indian mustard seed, field mustard seed, black mustard seed, flax seed, safflower seed, crambe seed and borage seed). Any cover crop planted for erosion control or soil improvement may be planted as soon as practical following the last application. However, the cover crop may not be grazed or harvested for food or feed. For all other crops, a 120-day plant-back interval must be observed.

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in a cool, dry place.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instruction, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Container Disposal

Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

Platinum®, the Syngenta logo, and the CP FRAME , are trademarks of a Syngenta Group Company

©2009 Syngenta

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

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

SCP 939A-L(draft citrus) [2 quarts, 8 fluid ounces (72 fl. oz.)]
SCP 939A-L (draft citrus) [1 pint (16 fl. oz.)]
SCP 939A-L (draft citrus) [2.5 gals. (320 fl. oz.)]

PLA 939A-L(draft citrus)clean-ig-2-11-09 000100-00939.20090211.citruc.pdf

[Non-detachable Container Label 72 oz. and 2.5 gal. (320 oz.)]

Platinum®

Insecticide

GROUP 4A INSECTICIDE

For control of certain insect pests infesting listed crops

Active Ingredient:	
Thiamethoxam ¹	21.6%
Other Ingredients:	78.4%
Total:	100.0%

¹CAS No. 153719-23-4

Platinum is a soluble concentrate containing 2 pounds of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use in booklet.

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. 100-939

EPA Est. XXXXX

SCP 939A-L1(draft citrus) [2 quarts, 8 fluid ounces (72 fl. oz.)]
SCP 939A-L3(draft citrus) [2.5 gals. (320 fl. oz.)]

2 quarts, 8 fluid ounces (72 fl. oz.)
2.5 gals. (320 fl. oz.)

Net contents

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

FIRST AID	
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
NOTE TO PHYSICIAN	
There is no specific antidote if Platinum is ingested. Induce emesis or lavage stomach. Treat symptomatically.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER	
For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372	

Environmental Hazards

This pesticide is toxic to wildlife and highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

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 adjacent to the treatment area.

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in a cool, dry place.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instruction, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Container Disposal

Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

Refer to Surface Water Advisory, Ground Water Advisory, Spray Drift Advisory, Physical or Chemical Hazards and Chemigation sections in the attached booklet.

Platinum® and the Syngenta logo are trademarks of a Syngenta Group Company

©2009 Syngenta

Manufactured for:

Syngenta Crop Protection, Inc.

P.O. Box 18300

Greensboro, North Carolina 27419-8300

41/43

(Non-detachable Container Front Label 16 oz.)

Platinum®
Insecticide

GROUP 4A INSECTICIDE

For control of certain insect pests infesting listed crops

Active Ingredient:	
Thiamethoxam ¹	21.6%
Other Ingredients:	78.4%
Total:	100.0%

¹CAS No. 153719-23-4

Platinum is a soluble concentrate containing 2 pounds of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use in booklet.

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. 100-939
EPA Est. XXXXX

Platinum® and the Syngenta logo are trademarks of a Syngenta Group Company
©2008 Syngenta
Manufactured for:
Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, North Carolina 27419-8300

SCP 939A-L2(draft citrus)

1 pint (16 fl. oz.)
Net Contents

(Non-detachable Container Back Label 16 fl. oz.)

KEEP OUT OF REACH OF CHILDREN.

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if inhaled or absorbed through skin. Causes moderate eye irritation.. Avoid contact with eyes, skin, or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

FIRST AID	
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

43
/43

NOTE TO PHYSICIAN

There is no specific antidote if **Platinum** is ingested. Induce emesis or lavage stomach. Treat symptomatically.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

HOT LINE NUMBER

For 24 Hour Medical Emergency Assistance (Human or Animal) or
Chemical Emergency Assistance (Spill, Leak, Fire, or Accident),
Call

1-800-888-8372

Environmental Hazards

This pesticide is toxic to wildlife and highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

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 adjacent to the treatment area.

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in a cool, dry place.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instruction, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Container Disposal

Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

Refer to Surface Water Advisory, Ground Water Advisory, Spray Drift Advisory, Physical or Chemical Hazards and Chemigation sections in the attached booklet.