

# Thidiazuron 4 SC

## *Cotton Defoliant*

For Agricultural Use Only

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**ACTIVE INGREDIENTS:** Thidiazuron (N-phenyl-N'-1,2,3-thiadiazol-5-ylurea)\* . 42.4%

**OTHER INGREDIENTS:** ..... 57.6%

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**Total:** ..... 100.0%

\*Not less than 4.0 lb of thidiazuron per gallon

## **KEEP OUT OF REACH OF CHILDREN CAUTION/CAUCIÓN**

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

SEE INSIDE FOR ADDITIONAL PRECAUTIONS AND USE DIRECTIONS

Manufactured For:

**Arysta LifeScience North America, LLC**

15401 Weston Parkway, Suite 150

Cary, NC 27513

EPA Reg. 66330-334

EPA Est. 70815-GA-002

AD042611

101820—022212

**Net Weight: 1 Gallon**



Arysta LifeScience

<b>FIRST AID</b>	
<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>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.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<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 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>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>HOT LINE NUMBER</b>	
<b>EMERGENCY TELEPHONE NUMBERS:</b>	
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
<b>FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL: 1-866-303-6952</b>	
<b>FOR CHEMICAL EMERGENCY:</b> Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.	

## **PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

# Caution

Harmful if swallowed, inhaled, or absorbed through the skin. Avoid breathing spray mist. Avoid contact with skin, eyes, and clothing. Do not contaminate food or feedstuffs.

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

All mixers, loaders and applicators must wear:

- Long-sleeved shirt
- Long pants
- Shoes and socks
- See Engineering Controls for Requirements

## USER SAFETY REQUIREMENTS

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

## ENGINEERING CONTROLS STATEMENT

**Engineering controls for Aerial Application:** Enclosed cockpits

Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)] 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/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Do not apply when weather conditions favor drift from treated areas. This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to product runoff that contains this product. 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 for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

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

## PHYSICAL OR CHEMICAL HAZARDS

This product is incompatible with strong oxidizing agents such as nitrates, chlorine bleach or hydrogen peroxide.

## DIRECTIONS FOR USE

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

Do not make applications of this product that may contact workers or other persons either by drift or directly. Protected handlers only are allowed in the area during application. Consult your State or Tribe agency responsible for pesticide regulations for any specific recommendation.

### 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 statement 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 24 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 soil or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

### PRODUCT INFORMATION

THIDIAZURON 4 SC, a harvest aid compound, is used for leaf removal prior to cotton harvest. THIDIAZURON 4 SC can be used in aircraft or ground equipment and is easily dispersed in water. Several days may pass before effects of treatment may be observed. Low temperature and other adverse conditions may require longer times and/or higher dosages for adequate defoliation.

THIDIAZURON 4 SC diminishes lint staining at the time of harvest and ginning by slowing regrowth.

### USE RESTRICTIONS

This product is not to be applied through any type of irrigation system.

The efficacy of THIDIAZURON 4 SC will be diminished if rainfall occurs within 24 hours post application.

Foliage from treated plants or gin trash is not to be fed to livestock. Do not use immature crops for feed.

**Rotation to the following crops requires the minimum** of the specified periods below after the last application of THIDIAZURON 4 SC.

small grains, sorghum, corn, or root crops (except carrots, onions or sugar beets) . . . . .	two (2) weeks
legumes (including alfalfa) or leafy vegetables (except lettuce and spinach) . . . . .	two (2) months
sugar beets . . . . .	four (4) months
carrots, onions and spinach . . . . .	nine (9) months
lettuce . . . . . ONLY when soil has been deep-plowed (12–15 inches) . . . . .	nine (9) months

**To avoid defoliation of and injury to other plant species, prevent spray drift from contacting crops other than mature cotton.**

Mixtures with organophosphate products can increase non-target crop phytotoxicity. Exercise additional care when lettuce, citrus, cantaloupes or any other edible crops are adjacent to THIDIAZURON 4 SC treated fields.

### RESTRICTIONS TO LOWER SPRAY DRIFT POTENTIAL ONTO NON-TARGET CROPS

Under windy weather conditions, applications of THIDIAZURON 4 SC may drift to non-target crops.

The following restrictions will help reduce drift potential:

- If wind speeds top ten (10) miles per hour at the application site, do not make aerial or ground applications of THIDIAZURON 4 SC.
- Nozzle pressures of 20–30 psi are recommended.
- Do not apply this product during a temperature inversion because drift potential is high. In addition, do not apply this product if the development of a temperature inversion appears likely during the application period.
- In general, a decrease in droplet size or increase in wind speed at the time of application will result in risk to non-target organisms. Alternatively, if droplet size is coarser or wind speeds are lower, exposures due to drift would be reduced.
- Do not apply this product by ground within 100 feet or by air within 0.5 mile of lettuce.

#### **RESTRICTIONS TO LOWER SPRAY DRIFT POTENTIAL IN THE RIO GRANDE VALLEY OF TEXAS**

The following restrictions will help reduce the potential for drift:

- If wind speeds top ten (10) miles per hour at the application site, do not make aerial or ground applications of THIDIAZURON 4 SC. If wind speeds are less than ten (10) miles per hour, observe local recommendations from your State Extension Cotton Specialist.
- Nozzle pressures of 20–30 psi are recommended.
- Do not apply this product during a temperature inversion because drift potential is high. In addition, do not apply this product if the development of a temperature inversion appears likely during the application period.
- In general, a decrease in droplet size or increase in wind speed at the time of application will result in risk to non-target organisms. Alternatively, if droplet size is coarser or wind speeds are lower, exposures due to drift would be reduced.
- Use the maximum nozzle orifice size that provides appropriate coverage and deposition of this product.
- **CITRUS AREAS:** Do not apply THIDIAZURON 4 SC by ground when citrus is flush (burst of new growth as in spring-time) is within ½ mile downwind of the point of application. Do not apply by air when citrus is flush is within 5 miles downwind of the point of application.

#### **TIME OF APPLICATION**

THIDIAZURON 4 SC defoliant applications are to be made only on mature cotton plants when the uppermost harvestable boll is mature. Boll maturity is defined as: 1) when a boll is squeezed between thumb and finger, it does not dent; 2) when cutting a cross section with a sharp knife is difficult; 3) when seeds in cross section lack liquid within the seed coat or outer edges of seed coat are light brown; and 4) when fully developed cotyledons are present.

Make applications of THIDIAZURON 4 SC at least five (5) days prior to expected harvest date.

**NOTE:** The following conditions will determine adequate defoliation with THIDIAZURON 4 SC:

- Cotton is actively growing
- High relative humidity
- Cotton plant leaves are turgid and not desiccated

#### **CONDITIONS**

Under low nighttime temperatures (below 60°F), this product, when used alone, may provide less than expected defoliation and/or regrowth suppression. For best results, apply this product when overnight temperatures will exceed 60°F two to three days before and after application.

The effects of THIDIAZURON 4 SC on heat or drought stressed cotton having non-turgid leaves and extremely waxy leaf surfaces may include reduced defoliation and reduced regrowth suppression.

### **THIDIAZURON 4 SC AS A FOLLOW UP DEFOLIATION TREATMENT**

Reduced or unsatisfactory defoliation may occur when THIDIAZURON 4 SC is used as a second or follow up treatment, except when following a prior THIDIAZURON 4 SC or THIDIAZURON 50WP stand alone or tank mixed application with other defoliant. Also, see CONDITIONS.

### **CROP OIL/ADJUVANTS USAGE**

Crop oil concentrates (COC's) or penetrating oils approved for agricultural crops have shown to improve performance under low nighttime temperatures (60°–65°F) and heat or drought conditions. Follow adjuvant label recommendations for proper rates.

Adjuvant usage in the desert Southwest (i.e., Arizona and California) is recommended when applying THIDIAZURON 4 SC.

**ATTENTION: During periods of high temperature, the use of adjuvants may result in the freezing and/or desiccation of leaves. As a result, the use of such compounds is not recommended during high temperature periods.**

### **MIXING INSTRUCTIONS**

1. Fill spray applicator tank with at least one half of the water to be used
2. Start agitation
3. Add the appropriate volume of THIDIAZURON 4 SC
4. Continue agitation and fill tank with the remainder of the water to be used
5. Agitation should continue throughout the application

### **TANK MIX ADJUVANTS**

To assist in defoliation performance it is recommended, when using a combination of this product and organophosphate defoliant in a tank mix, that a compatibility agent or surfactant is also used. Always perform a small jar test for compatibility before tank-mixing.

When tank-mixing, only tolerance-exempt products (pursuant to 40 CFR 180.1001) are permitted for use.

Follow manufacturers label instructions of the appropriate adjuvant.

When an adjuvant is to be used with this product, Arysta recommends the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant.

### **APPLICATION**

Use an adequate volume of water with the specified amount of THIDIAZURON 4 SC defoliant to uniformly and completely cover leaves. For ground equipment, apply 10–25 gallon per acre and by air, use 3–10 gallons per acre. Maintain agitation during application.

Do not allow mixed spray solution to stand overnight.

### **DOSAGE**

Application Rate: Use 0.125 lb ai/A (4 fl oz/A). You will be able to make applications to 20–40 acres with one gallon of this product. When under low temperatures of 60°–65°F, use the higher rate of 0.2 lb ai/A (6.4 fl oz/A).

When defoliating rank cotton, two applications are sometimes required for adequate defoliation. Maximum of two applications, but not to exceed 0.3 lb ai/A per year.

Maximum application rate of 0.3 lb ai/A per year (9.6 fl oz/A).

For cutout and mature cotton under normal weather patterns use Thidiazuron 4 SC at 0.05 to 0.10 lb ai/A. The 0.05 lb rate is most effective when used in a tank mix with other cotton defoliant products.

Increased rates of Thidiazuron 4 SC above 0.10 lb of ai/per acre may be needed to defoliate and control regrowth during periods of rank growth/high fertilizer conditions, extreme weather conditions, such as extended periods of rain and/or low temperatures (60°–65°F) and on full-season cotton varieties.

To Achieve an Application Rate of:	Use this Amount of Product	At the Indicated Rate, One Gallon of Product Will Treat
0.07 lb ai/A	2.3 fl oz/A	56 A
0.17 lb ai/A	5.4 fl oz/A	23.5 A

#### **ARIZONA ONLY: BOTTOM DEFOLIATION**

THIDIAZURON 4 SC can be used to help reduce boll rot and hard lock caused by moisture retained in the canopy, by aiding improved air circulation within the cotton canopy. Base product application timing upon the latest date when application equipment will not cause significant crop damage when driving applicator through the cotton crop.

Application Rate: Use 0.05 lb active ingredient/acre (1.6 fl oz/A).

It is recommended to apply THIDIAZURON 4 SC only to the bottom 1/3 of the plant.

#### **ARIZONA AND CALIFORNIA ONLY: PRECONDITIONING**

When used as a pre-conditioner seven to ten days before application of other defoliant compounds, this product will improve the efficacy of such a defoliant application. Before use, observe all product label directions, recommendations and prohibitions on both products' labels.

Application Rate: Use 0.05–0.1 lb active ingredient/acre (1.6–3.2 fl oz/A).

#### **TANK MIXES OF THIDIAZURON 4 SC AND ETHEPHON CONTAINING COMPOUNDS**

Improved defoliation and improved opening of mature bolls can be achieved by tank mixing THIDIAZURON 4 SC and Ethephon 6 or its equivalents. For best results, apply to mature cotton plants (See Application Timing section of this label). Wait until unopened bolls have reached adequate maturity so as to not affect the desired cotton yield. **Certified cottonseed producers** should consult seed companies as to proper boll and seed maturity requirements for their varieties. Low nighttime temperatures (if expected to be below 60°F) can reduce defoliation and decrease regrowth suppression. Application Rate: Use 0.05–0.125 lb active ingredient/acre (1.6–4 fl oz/A) of THIDIAZURON 4 SC along with 1–2 lb active ingredient/acre (32–64 fl oz/A) of Ethephon 6.

Under conditions of excessive regrowth potential or expected low temperatures, use the higher rates of THIDIAZURON 4 SC. When under low temperatures of 60°–65°F, use the higher rate of 0.2 lb ai/A (6.4 fl oz/A).

#### **TANK MIX OF THIDIAZURON 4 SC PLUS ETHEPHON FOR DEFOLIATION ENHANCEMENT:**

To improve defoliation, you may use lower rates (high enough to promote boll opening) of Ethephon 6 or its equivalents tank mixed with this product. Following such an application, Ethephon 6 can still be used to promote boll opening. Per year, however, you may use no more than 2.0 lb ai/acre of Ethephon 6 (approximately 42 fl oz of product) across all applications. Observe all product label directions, recommendations and prohibitions for Ethephon 6.

Application Rate: Use 0.05–0.125 lb. active ingredient/acre (1.6–4 fl oz/A) of THIDIAZURON 4 SC along with 0.25 lb active ingredient/acre (32–64 fl oz/A) of Ethephon 6.

If excessive regrowth or low temperatures are expected, use the higher rate of 0.2 lb ai/A (6.4 fl oz/A) of THIDIAZURON 4 SC. Maximum application rate of 0.3 lbs ai/Acre per year. Maximum of 2 applications, but not to exceed 0.3 lbs ai/Acre per year

#### **TANK MIX OF THIDIAZURON 4 SC WITH TRIBUFOS PRODUCTS (DEF®/FOLEX®)**

When plants to be treated are subject to non-ideal conditions, such as overnight temperatures below 60°F one day previous and three days after application, it is recommended to tank mix this product and DEF 6/FOLEX 6 EC. This combined spray solution will improve regrowth suppression and defoliation.

Make tank mix applications to mature cotton with at least 60% open bolls to achieve best activity.

#### **RATE OF APPLICATION for THIDIAZURON 4 SC—TRIBUFOS TANK MIXES**

THIDIAZURON 4 SC at 1.6 to 4 fluid ounces per acre + DEF 6 at 0.5–2.0 pints per acre.

THIDIAZURON 4 SC at 1.6 to 4 fluid ounces per acre + FOLEX 6 EC at 0.5–2.0 pints per acre.

If excessive regrowth is expected, use the higher rates of THIDIAZURON 4 SC.

**ATTENTION:** Desiccation may occur when tank mixing organophosphate defoliant and maximum rates of this product during extremely high temperatures.

When under low temperatures of 60°–65°F, use the higher rates of DEF 6/FOLEX 6 EC as specified.

For tank mix of THIDIAZURON 4 SC and DEF 6/FOLEX 6 EC:

Follow MIXING INSTRUCTIONS. Following the complete dispersion of THIDIAZURON 4 SC, add the required amount of DEF 6/FOLEX 6 EC to spray tank. Should an additional application of this tank mix be necessary, be sure to use no more than a total of 0.125 lb active ingredient per acre (4 fl oz/A) of this product.

Observe all product label directions for use, recommendations, prohibitions and tank mixing compatibility instructions for DEF 6 and FOLEX 6 EC.

#### **CAMERON, HIDALGO, STARR AND WILLACY COUNTIES OF THE STATE OF TEXAS: THE USE OF A TANK MIX OF THIS PRODUCT WITH DEF 6 OR FOLEX 6 EC IS PROHIBITED.**

#### **IMPORTANT CLEANOUT INSTRUCTIONS**

When tank mixing organophosphate defoliant with THIDIAZURON 4 SC, a residue may form in application equipment. This residue can best be flushed out of the spraying system by using a commercial tank cleaner when done while residue is still fresh and moist. **DO NOT ALLOW EQUIPMENT TO DRY BEFORE CLEANOUT.** Consult your State Extension Cotton Specialist for recommended tank cleaners and cleaning procedures.

Tank cleaner and water should be used immediately after application. The entire system including nozzles, booms, application tanks, sumps, pumps, and transfer lines should be flushed. Allowing the spray solution to dry in the application equipment can result in residues that are more difficult to remove. **Dried residues are extremely difficult to remove. To remove such dried residues, fill the affected equipment to capacity with commercial tank cleaner solution and let it remain for 7 days. Afterwards, the equipment will need to be thoroughly flushed and rinsed.**

Spray application equipment that has been inadequately cleaned will contain residue of THIDIAZURON 4 SC. Such improper cleaning could lead to crop damage in later applications.

**Arysta LifeScience assumes no liability for crop damage due to equipment that has not been properly cleaned.**



## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** This product should be stored at temperatures less than 100° F. Should this product be subject to freezing conditions, this product should be re-mixed prior to use.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Nonrefillable 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 if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer. Arysta 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 described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ARYSTA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.**

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Def® is a registered trademark of Bayer Crop Science  
Folex® is a registered trademark of Amvac Chemical

# Thidiazuron 4 SC

*Cotton Defoliant*

For Agricultural Use Only

<b>ACTIVE INGREDIENTS:</b> Thidiazuron (N-phenyl-N'-1,2,3-thiadiazol-5-ylurea)*	42.4%
<b>OTHER INGREDIENTS:</b>	57.6%
<b>Total:</b>	100.0%

\*Not less than 4.0 lb of thidiazuron per gallon

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Manufactured For:

**Arysta LifeScience North America, LLC**

15401 Weston Parkway, Suite 150

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**Net Weight: 1 Gallon**