



1812-350

1-19-2000

1 of 13

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Judy Smith  
Griffin L.L.C.  
P.O. Box 1847  
2509 Rocky Ford Road  
Valdosta, Georgia 31603-1847

JAN 19 2000

Dear Ms. Smith:

Subject: Super Tin 80 WP  
EPA Registration No. 1812-350  
Re: Label amendments as part of TPTH RED Settlement agreement  
Your Submission dated January 11, 2000

The revised label for the product referred to above, submitted, in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable under the following conditions:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

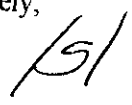
a. As previously indicated, the Restricted Use Statement must be revised to **RESTRICTED USE PESTICIDE** Because of the high acute toxicity of triphenyltin hydroxide and its potential for affecting fetal development. For retail sale to and use by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicators certification. Since expedited review of this submission was requested for the purpose of prompt printing of labels, any labeling printed as a result of this action which bears the Restricted Use statement, must be revised as indicated above.

b. Revise the following PPE statement for handlers using engineering controls to read "Handlers, mixers, loaders, applicators, flaggers and other using engineering controls must wear:" Also add chemical resistant apron to the list of protective equipment.

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

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

Sincerely,



Cynthia Giles-Parker  
Product Manager (22)  
Fungicide Branch  
Registration Division (7505C)

cc: Nancy Zahedi  
Special Review & Reregistration  
Division (7508C)

**RESTRICTED USE PESTICIDE**  
Because of the high acute toxicity of triphenyltin hydroxide and its potential for affecting fetal development, this product may be applied only by certified applicators or persons directly under their supervision.

**Super Tin 80 WP®**

**Fungicide**

**AGPAK® Water Soluble Pack**

Active Ingredient:

Triphenyltin hydroxide .....	80.0%
Inert Ingredients .....	20.0%
Total: .....	100.0%

Contains 6.0 ounces triphenyltin hydroxide per 7.5 ounce pack.  
Contains 20.0 ounces of triphenyltin hydroxide per 25.0 ounce pack.  
Contains 1.87 pounds triphenyltin hydroxide per 2.34 pound pack.

**ACCEPTED**  
with **COMMENTS**  
In EPA Letter Dated

**KEEP OUT OF REACH OF CHILDREN**

**JAN 19 2000**

**DANGER - PELIGRO**

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1812-350



(Skull on red background)

**POISON**

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).

**STATEMENT OF PRACTICAL TREATMENT**

- IF SWALLOWED:** Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water.  
Call a physician or Poison Control Center. Avoid alcohol.
- IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
- IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.
- IF IN EYES:** Flush with plenty of water. Call a physician.
- NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

*See Label for Additional Precautions and Directions for Use.*  
*For medical emergencies involving this product, call toll free 1-888-324-7598.*

GRIFFIN L.L.C.  
Valdosta, Georgia 31601

Net Contents \_\_\_\_\_

EPA Reg. No. 1812-350  
EPA EST. No. \_\_\_\_\_

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)**

**DANGER - PELIGRO**

Fatal if inhaled. Corrosive, causes irreversible eye damage and skin burns. May be fatal if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Do not breathe dust, vapor, or spray mist.

The United States Environmental Protection Agency has determined that triphenyltin hydroxide, the active ingredient of this product, affects fetal development in laboratory animals. Exposure to this product during pregnancy should be avoided.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are butyl rubber, nitrile rubber, or neoprene rubber. If you want more options, follow the instructions for Category A on an EPA chemical-resistant category selection chart.

Handlers exposed to the concentrate or diluted product must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves, such as butyl rubber, nitrile rubber, or neoprene rubber
- Protective eyewear
- Chemical-resistant apron for mixing and loading or equipment maintenance
- Chemical-resistant headgear for overhead exposure
- Dust/mist filtering respirator (MSHA/NIOSH approval prefix number TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.

Handlers using engineering controls must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves, such as butyl rubber, nitrile rubber, or neoprene rubber, during mixing and loading

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

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

**Engineering controls 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.

Applicators and human flaggers must be in enclosed cabs.

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

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not allow this product to drift from the target site. Do not apply with aircraft within 300 feet or with groundboom equipment within 100 feet of any natural body of water such as rivers, streams, ponds, lakes and reservoirs. Do not apply with aircraft when wind speed is greater than 10 mph. Apply this pesticide only as specified on this label. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

**DIRECTIONS FOR USE**

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

60413

## 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 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), notification to workers and restricted-entry intervals. 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 48 hours for all crops.

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

- Coveralls over long-sleeved shirt and long pants
- Chemical resistant gloves, such as butyl rubber, nitrile rubber, or neoprene rubber
- Shoes and socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

## STORAGE AND DISPOSAL

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

**CONTAINER DISPOSAL:** Completely empty outer bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## APPLICATION DIRECTIONS

**GROUND AND AERIAL APPLICATION:** Super Tin 80WP Fungicide can be applied as a ground or aerial spray to control fungal infestations on listed crops. Application rates are for general use and must not be exceeded. The state agricultural extension or agricultural experiment station specialist should be consulted for specific applications and timing recommendations. With any spray application, thorough coverage is essential for good control. Do not apply this product through any type of irrigation system except on potatoes.

Do not allow this product to drift from the target site. Apply this product only as specified on this label.

In case of accidental exposure, see Statement of Practical Treatment.

### AERIAL SPRAY DRIFT MANAGEMENT

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

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

1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the airstream and never be pointed downward more than 45 degrees.

Where states have more stringent regulations, they should be observed. The applicator should be familiar with and take into account the information covered in the **Aerial Drift Reduction Advisory Information (below)**.

#### **Aerial Drift Reduction Advisory Information:**

This section is advisory in nature and does not supersede the mandatory label requirements.

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

#### **CONTROLLING DROPLET SIZE:**

- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flow rates produce larger droplets.
- Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

CONTROLLING DROPLET SIZE (cont.):

- Number of nozzles - Use the minimum number of nozzles that provide uniform coverage.
- Nozzle orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift potential.

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

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

SWATH ADJUSTMENT: When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller crops, etc.)

WIND: Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS: Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form at the sunsets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source of an aircraft smoke generator. Smoke that layers and moves lateral in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.



9213

**SENSITIVE AREAS:** This pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

### MIXING PROCEDURES

When using Super Tin 80WP alone, open outer bag and place the entire water soluble pack into the filled spray tank and close tank immediately. **Do not open water soluble pack.**

If boron or other micro nutrients, fertilizers or other crop protection chemicals are to be used, fill spray tank 2/3 full, with agitation running, add Super Tin 80WP and close lid. **Do not open water soluble pack.** Allow approximately 10 minutes for the water soluble pack to dissolve. After package has dissolved, add other products and remaining water. Continue agitation during spray out. See PRECAUTION statement below on emulsifiable concentrate insecticides.

### GENERAL CHEMIGATION INSTRUCTIONS

Do not apply this product through any type of irrigation system on crops other than potatoes. Apply this product only through one or more of the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation system. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

For specific information about calibration, contact State Extension Service specialists, equipment manufacturers or other irrigation experts.

Do not connect an irrigation system used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

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.

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public, such as golf courses or retail greenhouses.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas.

When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any location affording maximum visibility to sensitive areas. The printed side of the sign

should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted for the duration of the restricted entry interval. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER. This sign is in addition to any sign posted to comply with the Worker Protection Standard.

### SPRINKLER CHEMIGATION

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.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must 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.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

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.

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.

Do not apply when wind speed favors drift beyond the area intended for treatment.

### PRECAUTIONS

We do not recommend mixture with surfactants, spreaders, stickers or buffers unless testing or prior experience has shown the mixture to be non-phytotoxic to the crop. Combinations with some pesticides, micro-nutrients, spreaders, stickers, surfactants or buffering agents can increase phytotoxicity. **Phytotoxicity may be severe.** Emulsifiable concentrate insecticides can be especially injurious in combination. Do not graze dairy or meat animals in treated areas.

## GENERAL INSTRUCTIONS FOR APPLICATION

CROP	DISEASE	DRY OZ/A'	USE DIRECTIONS
Sugar Beets	Cercospora Leaf Spot, Suppression of beet army worm	2.5-5.0 (15-7.5 acres/2.34 lb. pack or 3-1.5 acres/7.5 oz. pack or 10-5 acres/25 oz. pack)	<p>Ground (Enclosed Cabs Only): Apply in at least 15 gallons of water. Full coverage of the foliage is necessary for best results.</p> <p>Aerial (helicopter or fixed wing aircraft): Apply in 5 to 10 gallons of water.</p> <p>Diluted spray should be directed uniformly to all parts of the plant. Use lower gallonage when plants are small and increase volume with plant size. Use the lower rate for protective sprays and the higher rates later in the season or during high infection periods. Application should begin when Leaf Spot conditions appear or when the disease is in the area and repeated at 10 to 14 day intervals. In all states EXCEPT Minnesota, North Dakota, and Michigan, the maximum amount of product that can be applied is 10 ounces of Super Tin 80WP. For Minnesota, North Dakota, and Michigan, a maximum seasonal amount of 15 ounces of Super Tin 80WP may be applied. Do not treat within 21 days of harvest. Do not graze or feed beet tops to livestock.</p>
Potato	Early Blight, Late Blight, Suppression of Colorado Potato Beetle	2.5-3.75* (15- 10 acres/2.34 lb. pack or 3-2 acres/7.5 oz pack or 10-6.6 acres/25 oz. pack)	<p>Ground (Enclosed Cabs Only): Apply in at least 15 gallons of water. Full coverage of the foliage is necessary for best results. A spray pressure of less than 200 psi is recommended.</p> <p>Aerial: Apply in 3 to 10 gallons of water. For helicopter application, fly high enough so as not to whip the vines.</p> <p>Chemigation: Super Tin 80WP should be added through a traveling irrigation system continuously or at the last 30 minutes of solid set or hand moved irrigation systems. Agitation is recommended.</p>

CROP	DISEASE	DRY OZ/A	USE DIRECTIONS
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(cont.)

Diluted spray should be directed uniformly to all parts of the plant and the gallonage increased according to the size of the plants. Application should begin with the appearance of blight weather conditions and continue on a 7 day schedule. Do not treat within 7 days of harvest. Do not exceed 11.25 ounces/acre per season. The lower rate of application should be used early in the season and the high rate mid to late season or when blight infection is the area.

**\*PEST MANAGEMENT SYSTEMS.**  
When used in combination with another fungicide registered for disease control on potatoes, a 1.87 ounce/acre rate may be employed.

Pecan	Scab, Brown Leafspot, Downy Spot, Powdery Mildew, Liver Spot, Sooty Mold, Leaf Blotch	5.0-7.5 (7.5-5 acres/2.34 lb. pack or 1.5-1 acre/7.5 oz. pack or 5.0-3.3 acres/25 oz. pack)	Ground (Enclosed Cabs Only): Apply in sufficient water to provide for full coverage.  Aerial: Apply in a minimum of 20 gallons of water.
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Diluted spray should be directed to all parts of the tree. Application should begin at pre-pollination stages when the young leaves are unfolding, and a second application made when the small nuts are forming. Apply a maximum of nine treatments during a single growing season at 2 to 4 week intervals as needed to maintain control. Use the lower rate for the first two applications or until the disease becomes severe or during dry weather. Use the higher rate during wet weather or during severe scab, powdery mildew, or other disease infections. Do not apply within 30 days of harvest.

CROP	DISEASE	DRY OZ/A	USE DIRECTIONS
(cont.)			<p>Apply a maximum seasonal use rate of 30 ounces of Super Tin 80WP for pecans grown west of Interstate 35. Apply a maximum seasonal use rate of 45 ounces of Super Tin 80WP for pecans grown east of Interstate 35.</p>

**WARRANTY STATEMENT**

GRIFFIN warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of GRIFFIN. In no case shall GRIFFIN be liable for consequential, special, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall not exceed the purchase price paid for this product or at GRIFFIN'S election, the replacement of this product. GRIFFIN MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

AGPAK is a registered trademark of Griffin Corporation.  
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 Super Tin is a registered trademark of Griffin Corporation.

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