



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

January 18, 2017

Ms. Melinda Bowman  
MacDermid Agricultural Solutions, Inc.  
245 Freight Street  
Waterbury, CT 06702

Subject: Registration Review Label Mitigation for Triflumizole  
Product Name: Procure 50WS  
EPA Registration Number: 400-431  
Decision Number: 509806

Dear Ms. Bowman:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the Registration Review of the above referenced product in connection with the Triflumizole Final and/or Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label 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.

If you have any questions about this letter, please contact Heather Garvie by phone at 703-308-0034, or via email at [garvie.heather@epa.gov](mailto:garvie.heather@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to be "H. Johnson".

Hope Johnson, Product Manager 21  
Fungicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure: Stamped accepted master label

# Procure<sup>®</sup> 50WS



## Agricultural Fungicide

Net Contents:

### COMPOSITION

Active Ingredient:  
 Triflumizole  
 1-[1-[[4-chloro-2-(trifluoromethyl)phenyl]imino]-2-propoxyethyl]-1H-imidazole.....50%  
 Other Ingredients:..... 50%  
 Total:.....100%

KEEP OUT OF REACH OF CHILDREN

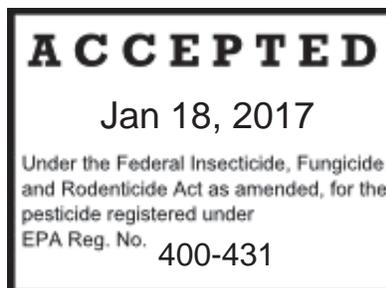
### CAUTION

<b>FIRST AID</b>	
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lens, 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 SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by the poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
<b>EMERGENCY ASSISTANCE:</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>MEDICAL EMERGENCY</b>	<b>800-292-5898</b>
<b>TRANSPORTATION EMERGENCY (CHEMTREC)</b>	<b>800-424-9300</b>
<b>PRODUCT SAFETY DATA (SDS)</b>	<b>800-423-8569</b>
<b>For PRODUCT USE INFORMATION: Call 800-423-8569</b>	

See inside booklet for additional First Aid, Precautionary Statements, and Directions for Use

Manufactured for:  
 MacDermid Agricultural  
 Solutions, Inc.  
 245 Freight Street  
 Waterbury, CT 06702

EPA REG NO. 400-431  
 EPA EST. NO.  
 0026/XXXXXX



**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed, or absorbed through the skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Do not get in eyes, on skin or on clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact with this product may cause allergic skin reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or the toilet.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemically-resistant to this product are listed below.

**Applicators and Other Handlers Must Wear:** A long-sleeved shirt & long pants; chemical-resistant gloves made of any waterproof material; shoes plus socks. For applicators using open cab air blast equipment in apples, pears, cherries, and grapes a chemical resistant hat is also required.

**USER SAFETY REQUIREMENTS**

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

**ENGINEERING CONTROLS**

When handlers use closed systems or 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.

Water-soluble packet when used correctly qualify as a closed loading system under the WPS. Handlers handling this product while it is enclosed in intact water-soluble packets may elect to wear reduced PPE of long-sleeved shirt, long pants, and shoes plus socks.

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

**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 the product. Wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. 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 cleaning equipment or disposing of equipment washwater or rinsate. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read entire label directions before using. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. REI is 24 hours (1 day) for girdling of table and raisin grapes. 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; and shoes plus socks.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool, dry, secure location.

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

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Completely empty bag into application by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## PRODUCT INFORMATION

PROCURE 50WS is a broad-spectrum foliar fungicide for control of certain diseases of apples, cherries, cucurbits, filberts, grapes, pears, pineapples and strawberries. PROCURE 50WS belongs to the demethylation inhibitor (DMI) group of fungicides classified as group 3 and acts as a protectant and as an eradicant by preventing disease symptoms before and after infection has occurred. Its anti-sporulant activity reduces spores after lesions become visible.

Read the entire label and directions before using PROCURE 50WS.

**RESISTANCE MANAGEMENT:** Populations of fungal pathogens are known to develop resistance to fungicides with the same mode of action when used repeatedly. Thus, MacDermid Agricultural Solutions encourages responsible resistance management to ensure an effective long-term control of diseases. Resistance management strategies include alternating and/or tank mixing with other labeled fungicides having different modes of action or limiting the total number of applications per season.

## APPLICATION INSTRUCTIONS

Apply PROCURE 50WS in sufficient water to ensure complete and thorough coverage of foliage, bloom and fruit.

Use higher specified rates on more susceptible varieties and/or under higher disease pressure. Optimum application rates are best determined by the user based on disease pressure, weather conditions, varietal susceptibility to specific diseases, and planned timing of applications versus the start of infection periods. In general, use rates in the higher listed rate range for heavy disease pressure, more susceptible varieties, conditions that favor disease development and conditions in which thorough coverage is more difficult.

Consult your State Agricultural Experimental Station or Extension Service Specialist for guidance on selection of specific dosage rates and timing of application appropriate to your specific crop and area conditions. State regulations may contain additional restrictions or requirements.

PROCURE 50WS can be tank mixed with most other fungicides, insecticides and plant growth regulators registered for use on the specified crops.

Procure 50WS can be applied with dilute or concentrate ground equipment. Aerial applications for tree fruits can be made in accordance with use directions noted for each crop. Equipment should be frequently checked for calibration.

## PRODUCT RESTRICTIONS

Do not allow livestock to graze on treated orchard ground cover. Aerial application of PROCURE 50WS is allowed unless prohibited under a specific crop use direction.

Do not apply this product through any type of irrigation system. Do not use less than the specified application rate.

## RESISTANCE MANAGEMENT RESTRICTIONS:

Do not make more than two sequential applications of PROCURE 50WS before alternating to a registered fungicide with a different mode of action. Consult your local or state agricultural authorities for resistance management strategies that are appropriate for your disease management program.

## ROTATIONAL CROPS RESTRICTIONS:

Do not plant leafy or fruiting vegetables within 30 days after application. Do not plant root and tuber vegetables within 60 days after application. Do not plant cotton, small cereal grains and all other crops not registered on the label for PROCURE 50WS, within one year after application.

**HANDLING OF WATER SOLUBLE POUCHES:** Prior to use, keep the water soluble pouches dry at all times. Do not handle with wet hands or wet gloves. Store unused pouches in the original package in a dry location away from heat and cold.

**MIXING:** Use the dosage charts to determine the rate of PROCURE 50WS required in each tank of spray. Calculate the number of water soluble pouches required to provide the desired amount of material. Do not break pouches. It is recommended that the pouches be added to a partially filled spray tank prior to the additions of other agricultural chemicals, then direct the rest of the filling spray onto the pouches. Do not use partial pouches. The pouches should be completely dissolved and the powder thoroughly dispersed in the spray tank before spraying.

This product cannot be mixed with any product containing a label prohibition against such mixing. Because products and application conditions vary considerably, new mixtures should be tested on a small scale prior to use.

Do not tank mix water soluble pouches of PROCURE 50WS with products that contain boron or release free chlorine. A chemical reaction may occur which changes the film into an insoluble plastic.

## APPLES & PEARS

CROP	DISEASE	RATE OZ PER ACRE (LB AI/A)	APPLICATION INSTRUCTIONS
Apples Pears	<b>Powdery Mildew</b> ( <i>Podosphaera leucotricha</i> )	8 to 16 (0.25 to 0.5)	For Apples, Initiate spraying at first sign of mildew, usually at the ½" green tip stage. For Pears, initiate spraying at pink or white stage.
	<b>Scab</b> ( <i>Venturia inaequalis</i> )  <b>Cedar Apple Rust</b> ( <i>Gymnosporangium juniperi-virginianae</i> )		<p><b>Standard Spray Schedule</b> Initiate spraying at ½" green tip stage continue through second cover or until primary scab sporulation is complete. Use higher listed rates for more susceptible varieties and heavy disease pressure. After first cover, PROCURE 50WS can be used in a standard cover spray program in tank mixes with appropriate protectant fungicides.</p> <p><b>Eradicant Spray Schedule (Post Infection Schedule)</b> Initiate applications within 96 hours of the start of an infection period. Under low to moderate disease pressure conditions, rates in the lower range can be applied within 48 hours after the start of an infection period. Use rates in the higher range when disease pressure is high or if the time interval after the start of infection is greater than 48 hours. For improved scab control apply PROCURE 50WS in combination with a protectant fungicide. After first cover, PROCURE 50WS can be used in a standard cover spray program in combination with appropriate protectant fungicides.</p>
<p><b>RESTRICTIONS:</b> Do not apply more than a total of 4 applications of PROCURE 50WS per crop per year. Do not apply more than a total of 56 oz (1.75 lb ai) of PROCURE 50WS per crop per year. Do not apply less than 14 days apart. Wait at least 21 days between the second and third applications. Do not apply within 14 days of harvest. Do not allow livestock to graze on treated orchard ground cover. When making aerial applications, use 12 - 16 oz PROCURE 50WS in a minimum of 10 gallons of water per acre. Do not apply by air in California. Ground applications – apply in a minimum of 100 gallons per acre.</p>			

## CHERRIES (SWEET & TART)

CROP	DISEASE	RATE OZ PER ACRE (LB AI/A)	APPLICATION INSTRUCTIONS
Cherries (Sweet & Tart)	<b>Powdery Mildew</b> ( <i>Podosphaera clandestina</i> )	8 to 16 (0.25 to 0.50)	Initiate treatments at early popcorn and continue until terminal growth ceases, timed to maintain coverage on susceptible tissue throughout the possible infection period.
	<b>Blossom Blight &amp; Fruit Rot</b> ( <i>Monilinia spp.</i> )	10 to 16 (0.31 to 0.50)	<p><b>Blossom Blight Control:</b> Apply between early popcorn and petal fall. Complete fungicide coverage must be maintained throughout the bloom period.</p> <p><b>Fruit Rot Control:</b> Depending on disease pressure, applications can also be directed to the fruit through the cover spray period.</p>
	<b>Leaf Spot</b> ( <i>Blumeriella jaapii</i> )	10 to 16 (0.31 to 0.50)	Applications made to control powdery mildew will suppress the development of leaf spot. Tank mix with other products registered for leaf spot control for optimum control.
<p><b>RESTRICTIONS:</b> Do not apply more than a total of 4 applications of PROCURE 50WS per crop per year. Do not apply more than a total of 56 oz (1.75 lb ai) of PROCURE 50WS per crop per year. Do not apply less than 14 days apart. Wait at least 21 days between the second and third application. Do not apply within 1 day of harvest. Do not allow livestock to graze on treated orchard ground cover. When making aerial applications, use 12 - 16 oz PROCURE 50WS in a minimum of 10 gallons of water per acre. Ground applications – apply in a minimum of 100 gallons per acre.</p>			

## CUCURBITS

CROP	DISEASE	RATE OZ PER ACRE (LB AI/A)	APPLICATION INSTRUCTIONS
<b>Cucumbers</b> <b>Gherkins</b> <b>Gourds</b> <b>Muskmelons</b> (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon) <b>Pumpkins</b> <b>Squash</b> (summer and winter) <b>Watermelons</b>	<b>Powdery Mildew</b> <i>(Erysiphe cichoracearum, Podosphaera xanthii)</i>	4 to 8 (0.125 to 0.25)	Begin applications at the start of vining or at first indication of disease. Repeat applications can be made at not less than 7 day intervals. Repeat applications can be made at not less than 7 day intervals.
<b>RESTRICTIONS:</b> Do not apply more than a total of 3 applications of PROCURE 50WS per acre per crop per year at the 8 oz per acre rate. Do not apply more than a total of 3 applications of PROCURE 50WS per acre per crop per year at the 4 - 6 oz per acre rate. If applying to a transplanted crop, do not apply more than a total of 3 applications per crop per year. If applying to a crop grown from seed, do not apply more than a total of 4 applications per crop per year at the 4 – 6 oz per acre rate or 3 applications at the 8 oz per acre rate. Do not apply more than a total of 24 oz (0.75 lb ai) of PROCURE 50WS per acre per crop per year. Applications can be made up to and including the day of harvest.			

## GRAPES

CROP	DISEASE	RATE OZ PER ACRE (LB AI/A)	APPLICATION INSTRUCTIONS
<b>Grapes</b>	<b>Powdery Mildew</b> <i>(Uncinula necator)</i>	4 to 8 (0.125 to 0.25)	Start protectant applications before bloom and continue on a 14 to 21 day interval. When disease pressure is high or for the most susceptible varieties, use 6 to 8 oz/acre and/or 14-day spray intervals. When disease pressure is low or for least susceptible varieties, use 4 to 6 oz/acre and/or 21 day spray intervals. Select spray volume, nozzle adjustments and ground speed to ensure complete coverage of fruit clusters and foliage. Use a minimum of 50 gallons of water per acre for early season applications. Sulfur at specified use rates can be applied before, with, and/or between PROCURE 50WS applications.  PROCURE 50WS applied in a powdery mildew spray schedule, will enhance the activity of registered fungicides used for the control of Botrytis bunch rot. Applications must be made on a 14-day spray schedule for suppression of Botrytis bunch rot.
<b>RESTRICTIONS:</b> Do not apply more than a total of 4 applications of PROCURE 50WS per acre per crop per year. Do not apply more than a total of 32 oz (1.0 lb ai) of PROCURE 50WS per crop per year. Do not apply within 7 days of harvest. The Restricted Entry Interval (REI) for girdling table and raisin grapes is 24 hours (1-day). Do not apply by air.			

## HAZELNUTS (FILBERTS)

CROP	DISEASE	RATE OZ PER ACRE (LB AI/A)	APPLICATION INSTRUCTIONS
Hazelnuts (Filberts)	Eastern Filbert Blight ( <i>Anisogramma anomala</i> )	4 to 6 (0.125 to 0.1875)	Apply PROCURE 50WS at budbreak (when the first green tissue is visible) as a preventative spray. One repeat application can be made no less than 10 days later if weather conditions are conducive to disease development, and to protect the expanding shoot tip. PROCURE 50WS may be applied as a tank mix or alternated with non-DMI fungicides as a resistance management strategy. Tank mixing the lowest labeled rate of a spray surfactant with PROCURE 50WS may improve spray coverage and penetration.

**RESTRICTIONS:**

Do not apply more than a total of 2 applications of PROCURE 50WS per crop per year.  
 Do not apply more than a total of 12 oz (0.375 lb ai) of PROCURE 50WS per crop per year.  
 Do not apply within 18 days of harvest.  
 Do not allow livestock to graze on treated orchard ground cover.  
 Ground applications – apply in a minimum of 100 gallons per acre.  
 For aerial applications, use only the 6 oz/A rate - apply in a minimum of 15 gallons per acre.

## PINEAPPLES

### Pre-Plant Seed Piece Dip Treatment

CROP	DISEASE	RATE OZ PER ACRE (LB AI/A)	APPLICATION INSTRUCTIONS
Pineapples	Butt Rot ( <i>Chalara paradoxa</i> )	4 to 8 (0.125 to 0.25)	Apply as a pre-plant seed piece dip treatment. Freshly removed seed-piece material from the parent plant should be immersed for thorough wetting and coverage. Use the higher specified label rate under moderate to severe disease pressure. Store treated plant material with butt ends exposed to the sun prior to planting for optimum disease control.

**RESTRICTIONS:**

Do not use treated green forage or green fodder for animal feed.

## STRAWBERRIES

CROP	DISEASE	RATE OZ PER ACRE (LB AI/A)	APPLICATION INSTRUCTIONS
Strawberry (including all cultivars, varieties and/ or hybrids of these)	Powdery Mildew ( <i>Sphaerotheca macularis f. sp. fragariae</i> )	4 to 8 (0.125 to 0.25)	Initiate applications at the first sign of powdery mildew. Repeat applications can be made at no less than 14 day intervals while conditions favor disease development.  Protection of leaves before bloom will reduce in-season disease pressure and result in greater control of flower and fruit infections.  Apply with dilute or concentrate ground equipment. Use higher specified application rates and shorter spray intervals on more susceptible varieties and/or under higher disease pressure.

**RESTRICTIONS:**

Do not apply more than a total of 4 applications of PROCURE 50WS per crop per year.  
 Do not apply more than a total of 32 oz (1.0 lb ai) of PROCURE 50WS per crop per year.  
 Do not apply within 1 day of harvest.  
 Use a minimum of 75 gallons per acre spray volume for ground applications.  
 Use a minimum of 2 gallons per acre spray volume for aerial applications.

**IMPORTANT NOTICE**—To the extent consistent with applicable law, MacDermid Agricultural Solutions warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to MacDermid Agricultural Solutions, and the buyer, to the extent consistent with applicable law, assumes the risk of any such use.