



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 Office of Pesticide Programs  
 Registration Division (7505P)  
 1200 Pennsylvania Ave., N.W.  
 Washington, D.C. 20460

EPA Reg. Number:

81880-29

Date of Issuance:

1/10/18

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
 (under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

PYRIDABEN T&O SC

Name and Address of Registrant (include ZIP Code):

Melissa Riesland  
 Canyon Group c/o Gowan Company  
 P.O. Box 5569  
 Yuma, AZ 85366

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Elizabeth Fertich, Product Manager 4  
 Invertebrate & Vertebrate Branch I  
 Registration Division (7505P)

Date:

1/10/18

2. You are required to comply with the data requirements described in the DCI or EDSP Order identified below:

- a. Pyridaben GDCI- 129105-855

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI or EDSP Order listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division:

<http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 81880-29.”
4. Submit one copy of the final printed label for the record before you release the product for shipment.

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.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 08/31/2017

If you have any questions, please contact Maggie Rudick by phone at 703-347-0257, or via email at [rudick.maggie@epa.gov](mailto:rudick.maggie@epa.gov).

Enclosure

**ACCEPTED**

01/10/2018

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 81880-29

GROUP

21A

ACARICIDE

# PYRIDABEN T&O SC

Miticide/Insecticide

**ACTIVE INGREDIENT: Pyridaben**

**% By Wt.**

[2-*tert*-butyl-5-(4-*tert*-butylbenzylthio)-4-chloropyridazin-3(2*H*)-one] .....42.47%

**OTHER INGREDIENTS:** .....57.53%

**Total** 100.00%

Contains 3.75 pounds active ingredient per gallon.

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

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

FIRST AID	
If swallowed	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have the person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything to an unconscious person.</li> </ul>
If in eyes	<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 first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing	<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>
If inhaled	<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>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. <b>For additional information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), you may call 1-888-478-0798.</b>	

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed, inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves
- Protective eye wear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not re-use them. Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### NET CONTENTS:



EPA Reg. No. 81880-X  
EPA Est. No.

Distributed By:  
Gowan Company  
P.O. Box 5569  
Yuma, AZ 85366-5569

**Engineering Controls Statement:** 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, 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 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. Keep out of lakes, ponds, or streams. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Do not apply when weather conditions favor drift from target area. Drift or runoff from treated areas may be hazardous to fish in adjacent sites. This product is highly toxic to bees. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively foraging the treatment area. Application early in the morning or at dusk is suggested.

#### PHYSICAL AND CHEMICAL HAZARDS

Do not allow contact with oxidizing agents. Hazardous chemical reaction may occur.

#### ENDANGERED SPECIES CONCERNS

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

#### 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.

All applicable directions, restrictions, precautions and **Notice of Conditions of Sale and Warranty and Liability Limitations** are to be followed.

#### 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
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

#### USE INFORMATION

**Pyridaben T&O SC** is a selective contact Miticide/Insecticide that controls mites and whiteflies on ornamental plants, flowers, and foliage crops.

**Pyridaben T&O SC** provides knockdown and residual control. A good performance evaluation can be made 4-7 days after treatment. For optimum results, **Pyridaben T&O SC** should be applied as pest populations build prior to reaching economic thresholds.

#### MITE RESISTANCE MANAGEMENT

Naturally occurring strains of mites and insects listed on this label may not be effectively controlled due to reduced sensitivity. If insensitive strains are present, use a product with a different mode of action to ensure control. Alternate **Pyridaben T&O SC** with other miticides as part of a mite management program to minimize resistance. Repeated use of the same miticide has been documented to result in the buildup of resistant strains of mites. To limit the potential for **Pyridaben T&O SC** insensitivity development, do not make more applications than those specified in the crop section of the label. Consult with your local or state extension personnel for advice on miticide use and selection.

#### CLEANING SPRAY EQUIPMENT

Clean application equipment thoroughly by using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions and by triple rinsing the equipment before and after applying this product.

#### APPLICATION INSTRUCTIONS

**Pyridaben T&O SC** may be applied by ground equipment using either diluted or concentrated sprays. Apply listed rates of **Pyridaben T&O SC** as instructed by **Application Directions Section**. Spray the last 3 rows windward of surface water using nozzles on only one side with the spray directed away from surface water. Spraying over the tops of trees can be prevented by adjusting or turning off the top nozzles. Shut the nozzles on the side away from the grove off when spraying the outside row. Shut the nozzles off when turning at the ends of the rows and when passing tree/vine gaps in rows.

### COVERAGE

Apply **Pyridaben T&O SC** in sufficient water to ensure thorough coverage of foliage and fruit. Thorough coverage is required for optimum control. Spraying alternate rows may reduce **Pyridaben T&O SC** performance. **Pyridaben T&O SC** must be applied to each row for optimum control. To achieve thorough coverage, use proper spray pressure, nozzles, nozzle spacing, volume per acre, and tractor speed. Consult spray nozzle and accessory guide for information pertaining to proper equipment calibration.

### GROUND APPLICATION (BROADCAST)

**Water Volume:** Use 100-400 gallons of spray solution per broadcast acre for optimal performance.

### ADDITIVES

In general, no additives or adjuvants are necessary for effective use of **Pyridaben T&O SC**. However, the use of additives may be considered for certain conditions such as obtaining better spray distribution, adhesion or penetration of product onto leaf or plant surfaces. Consult a Canyon representative or local agricultural authorities for more information concerning additives.

### TANK MIXING INFORMATION

The phytotoxic potential of **Pyridaben T&O SC** has been assessed on a wide variety of plants with no phytotoxicity observed. However, all varieties and cultivars have not been tested with possible tank mix combinations, sequential pesticide treatments, and adjuvants and surfactants. Local conditions can also influence crop tolerance and may not match the information under which testing had been conducted. Therefore, before using **Pyridaben T&O SC**, test the product on a sample of the crop to be treated to ensure that a phytotoxic response will not occur as a result of applications.

#### Compatibility Test for Mix Components

Before mixing components, always perform a compatibility jar test.

For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Only use water from the intended source at the source temperature.

Add components in the sequence indicated in the Mixing Order (see below) using 2 teaspoons for each pound or 1 teaspoon for each pint of listed label rate per acre.

Always cap the jar and invert 10 cycles between component additions.

When the components have all been added to the jar, let the solution stand for 15 minutes. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. If the spray solution is not compatible, repeat the compatibility test with the addition of a suitable compatibility agent. If the solution is then compatible, use the compatibility agent as directed on its label. If the solution is still incompatible, do not mix the ingredients in the same tank.

#### Mixing Order

1. Water. Begin by agitating a thoroughly clean sprayer tank half full of clean water.
2. Products in PVA bags. Place any product contained in water soluble PVA bags. Allow time for thorough mixing.
3. Water-dispersible products (such as dry flowables, wettable powders, suspension concentrates, or suspo-emulsions).
4. Water soluble products
5. Emulsifiable concentrates
6. Water soluble additives
7. Remaining quantity of water. Maintain constant agitation during application.

### CROPS

This product can be used on the following crops:

- **Ornamental plants**
- **Foliage plants, such as poinsettias**
- **Greenhouse tomatoes**
- **Greenhouse cucumbers**

### PESTS

This product can be used on the following pests:

COMMON NAME	SCIENTIFIC NAME
Broad mite	Family: Tarsonemidae <i>Polyphagotarsonemus latus</i>
False spider mite	Family: Tenuipalpidae <i>Brevipalpus phoenicis</i>
Citrus flat mite	<i>Brevipalpus lewisi</i>
Apple rust mite	Family: Eriophyidae <i>Aculus schlechtendali</i>
Citrus bud mite	<i>Aceria sheldoni</i>
Citrus rust mite	<i>Phyllocoptruta oleivora</i>
Peach silver mite	<i>Aculus fockeui</i>
Pear rust mite	<i>Eptrimerus pyri</i>
Pink citrus rust mite	<i>Aculops pelekassi</i>
Citrus red mite	Family: Tetranychidae <i>Panonychus citri</i>
European red mite	<i>Panonychus ulmi</i>
McDaniel spider mite	<i>Tetranychus mcdanieli</i>
Pacific spider mite	<i>Tetranychus pacificus</i>

Pecan leaf scorch mite Sixspotted mite Southern red mite Texas citrus mite Twospotted spider mite Willamette spider mite	<i>Eotetranychus hicoriae</i> <i>Eotetranychus sexmaculatus</i> <i>Oligonychus ilicis</i> <i>Eutetranychus banksi</i> <i>Tetranychus urticae</i> <i>Eotetranychus willamettei</i>
Citrus root weevil	Family: Curculionidae <i>Pachnaeus litus</i>
Apple aphid Black pecan aphid Black margined aphid Brown citrus aphid Yellow pecan aphid	Family: Aphididae <i>Aphis pomi</i> <i>Melanocallis caryaefoliae</i> <i>Monellia caryella</i> <i>Toxoptera citricida</i> <i>Monelliopsis pecanis</i>
Sweet potato whitefly Silverleaf whitefly	Family: Aleyrodidae <i>Bemisia tabaci</i> <i>Bemisia argentifolii</i>
Pear Psylla	Family: Psyllidae <i>Cacopsylla pyricola</i>
Eastern grape leafhopper Grape leafhopper Variegated leafhopper Virginia creeper leafhopper White apple leafhopper	Family: Cicadellidae <i>Erythroneura comes</i> <i>Erythroneura elegantula</i> <i>Erythroneura variabilis</i> <i>Erythroneura ziczac</i> <i>Typhlocyba pomaria</i>

#### APPLICATION DIRECTIONS

CROP	RATE	COMMENTS
Ornamental plants and Foliage plants grown in greenhouses and outdoors	6.4 – 9.6 oz per acre OR 0.15 - 0.22 oz per 1000 sq ft	Apply using sufficient water volume to obtain complete and uniform coverage of all plant leaf surfaces. Apply when mites first appear and before a threshold of five spider mites per leaf is reached. Apply higher rates for whiteflies.
	<ul style="list-style-type: none"> <li>Do not apply more than 34.14 oz of product per acre, per year.</li> <li>Avoid drift to all other crops and non-target areas.</li> </ul>	
Greenhouse tomatoes	6.4 – 9.6 oz per acre OR 0.15 - 0.22 oz per 1000 sq ft	Apply using sufficient water volume to obtain complete and uniform coverage of all plant leaf surfaces. Apply when mites first appear and before a threshold of five spider mites per leaf is reached. Apply higher rates for whiteflies.
	<ul style="list-style-type: none"> <li>PHI = 2 days</li> <li>Do not make more than 2 applications per crop per year.</li> <li>Do not apply more than 12.8 oz of product per crop per season.</li> <li>Allow a minimum of 30 days between sequential applications</li> </ul>	
Greenhouse cucumbers	6.4 – 9.6 oz per acre OR 0.15 - 0.22 oz per 1000 sq ft	Apply using sufficient water volume to obtain complete and uniform coverage of all plant leaf surfaces. Apply when mites first appear and before a threshold of five spider mites per leaf is reached. Apply higher rates for whiteflies.
	<ul style="list-style-type: none"> <li>PHI = 1 day</li> <li>Do not make more than 2 applications per crop per year.</li> <li>Do not apply more than 19.2 oz of product per crop per season.</li> <li>Allow a minimum of 30 days between sequential applications.</li> <li>Not for use on cucumbers grown in the field.</li> </ul>	

#### USE RESTRICTIONS

- Do not enter a treated greenhouse or a treated indoor area without protective equipment for 12 hours unless one of the following items is completed:
  - 10 air exchanges
  - 2 hours of system ventilation
  - 4 hours of ventilation using vents, windows or other passive ventilation
  - All required PPE is worn.
- Sequential Treatment: Do not use in successive miticide applications. Use in rotation with other treatments having different modes of action.
- Do not use less than 6.4 ozs of **Pyridaben T&O SC** per acre.
- Do not use with nutritional sprays that contain boron.
- Do not apply by air.

- Do not apply through any type of irrigation equipment.
- Drift: Do not apply product when weather conditions favor drift to surface water. Do not apply within 110 feet upwind of surface water or when wind speed is above 8 mph. Do not apply during a temperature inversion.
- **Pyridaben T&O SC** is not for sale, distribution, or use in Nassau and Suffolk counties in New York State. In the remainder of the state, read and follow all applicable directions, restrictions and precautions on this label.

#### **STORAGE AND DISPOSAL**

**DO NOT** contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store in a cool, dry place away from heat or open flame.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**FOR 24 HOUR EMERGENCY ASSISTANCE (SPILL, LEAK, OR FIRE) CALL CHEMTREC® (800) 424-9300**  
**For other information, contact Gowan Company or see Safety Data Sheet.**

#### **NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILITY LIMITATIONS**

**Important:** Read the entire Directions for Use and Notice of Conditions of Sale and Warranty and Liability Limitations before using this product. If terms are not acceptable return the unopened container for a full refund.

Our directions for use of this product are based on tests believed to be reliable. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, inadequate performance, or other unintended consequences may result due to soil or weather conditions, off target movement, presence of other materials, method of use or application, and other factors, all of which are beyond the control of Gowan Company. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer and User.

Gowan Company warrants that this product conforms to the specifications on the label when used in strict conformance with Direction for Use, subject to the above stated risk limitations. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, GOWAN COMPANY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, GOWAN COMPANY'S EXCLUSIVE LIABILITY FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, OR ANY OTHER LEGAL THEORY IS STRICTLY LIMITED TO THE PURCHASE PRICE PAID OR REPLACEMENT OF PRODUCT, AT GOWAN COMPANY'S SOLE DISCRETION.

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**EPA TEXT PENDING: Pyridaben T&O SC (To EPA 08-31-17)**