

10163-297

3/31/2010

1/8



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

EPA Reg. Number:  
10163-297

Date of Issuance:  
MAR 31 2010

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:  
Conditional

Name of Pesticide Product:  
GWN-1708 Miticide/Insecticide

Name and Address of Registrant (include ZIP Code):

Gowan Company  
P.O. Box 5569  
Yuma, AR 85364

Decision No. 377695  
R06.0 5-871301  
1180

Attention: Mr. Luis Castro

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/reregistered 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)(C) provided that the Gowan Company:

- A. **within 90 Days** of this Notice, commits to conduct the studies listed below within the time frames indicated;

*Meredith Laws*  
Meredith Laws, Chief  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

Date:  
MAR 31 2010

EPA Reg. No. 10163-297

B. **within one (1) year**, submits the following environmental fate and effects studies:

Aquatic Invertebrate Life-Cycle, GN 850.1300  
Avian Acute Oral Toxicity Test (Passerine Species), GN 850.2100  
Honey Bee Toxicity of Residues on Foliage, GN 850.3030  
Immunotoxicity Study, GN 870.7800

Note: The Agency also included in its February 18, 2010 Proposed Decision the submission of the following two studies that Gowan submitted to the Agency on March 5, 2010:

Acute Toxicity Estuarine/Marine Fish, GN 850.1075  
Acute Toxicity Estuarine/Marine Invertebrates (Mysid), GN 850.1035

C. **within 18 months**, submits the following chemistry data on this product:

Corrosion Characteristics, GN 830.6320  
Dissociation Constants in Water, GN 830.7370  
Stability to Normal and Elevated Temperatures, Metals, and Metal Ions, GN 830.6313  
Oxidation/reduction: Chemical Incompatibility, GN 830.6314

D. **within two (2) years**, submits the following studies:

Aerobic Soil Metabolism, GN 835.4100  
Aerobic Aquatic Metabolism GN 835.4300  
28-Day Dermal, GN 870.3200  
28-Day Inhalation Toxicity Study, GN 870.3465  
Acute Neurotoxicity Screening Battery (Rat), GN 870.6200a  
90 Day Neurotoxicity Screening Battery (Rat), GN 870.6200b

Note: The Agency also included in its February 18, 2010 Proposed Decision the submission of the following study that Gowan submitted to the Agency on March 5, 2010:

Avian Reproduction Study (Waterfowl), GN 850.2300

E. submits one (1) copy of final printed labeling, with the following label changes,

1. Add the registration number to your label, "EPA Reg. No. 10163-297".
2. Follow the label requirements for minimum type size. All type must be on a contrasting background and easily read. See Enclosure 2.

3. Revise the PPE in your "**Hazards to Humans and Domestic Animals**" as follows:

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants (Coveralls for mixing/loading and applying with high-pressure handwand)
- Chemical-resistant gloves
- Shoes plus socks
- Chemical-resistant headgear for overhead exposure
- Dust/mist filtering respirator (MSHA/NIOSH approval numbers prefix TC-21C, or a NOISH approved respiratory with a N, P, R, or HE pre-filter (for Greenhouse and Treated Indoor Areas))

4. Revise the PPE in "**AGRICULTURAL USE REQUIREMENTS**" for early entry as follows:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Chemical-resistant headgear for overhead exposure
- Dust/mist filtering respirator (MSHA/NIOSH approval numbers prefix TC-21C, or a NOISH approved respiratory with a N, P, R, or HE pre-filter (for Greenhouse and Treated Indoor Areas))

The acceptable Confidential Statement of Formula (CSF) for this product is dated June 13, 2008. All other versions are obsolete.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed. If you have any questions, please contact Dan Peacock by phone (703-305-5407), or E-Mail (peacock.dan@epa.gov).

- Enclosures:
1. Stamped Label
  2. Minimum Type Sizes for Final Printed Label

5/8

ACCEPTED  
With COMMENTS  
In EPA Letter Dated: MAR 31 2010

GROUP 21 ACARICIDE

# GWN-1708

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

MITICIDE/INSECTICIDE

ACTIVE INGREDIENT: Fenazaquin	18.79%
4-tert-butylphenethyl quinoxalin-4-yl ether (IUPAC) 10163-297	81.21%
OTHER INGREDIENTS:	TOTAL 100.0%

Contains 1.6 pounds active ingredient per gallon.

## KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

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	
<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>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>
<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 first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOTLINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. <b>FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT CALL 1-888-478-0798.</b>	
<b>NOTE TO PHYSICIAN</b>	
If ingested, the product may cause irritation of the GI tract, vomiting and diarrhea. Treatment should be symptomatic and supportive. No antidote is recommended.	

### PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS WARNING/AVISO

WARNING: May be fatal if swallowed. Harmful if inhaled. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Avoid breathing dust. Remove and wash contaminated clothing before reuse. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. (See Right/Left/Back Panel for additional precautionary statements)

NET CONTENTS \_\_\_ QUARTS

010163-00297.20100329.GWN-1708



EPA Reg. No. 10163-XXX  
EPA Est. No.

Produced For:  
Gowan Company  
P.O. Box 5569  
Yuma, AZ 85366-5569

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants (Coveralls for mixing/loading and applying with high-pressure handwand)
- Shoes plus socks

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

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

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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, 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 washwaters or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

This product is highly toxic to bees exposed to direct application on blooming crops, weeds, and ornamental plants. Do not apply this product or allow it to drift to blooming crops, weeds or ornamentals while bees are visiting the treatment area.

**DIRECTIONS FOR USE**

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

**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), notification to workers, 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

**Additional Requirements for Early Entry into Greenhouse and Treated Indoor Areas**

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

**Non-Agricultural Use Requirements**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for Agricultural Pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep all unprotected persons out of operating areas or vicinity where there may be drift. Do not enter treated areas without protective equipment until sprays have dried.

**USE RESTRICTIONS:**

**Use Pattern**

Apply this product only on ornamentals, Christmas tree farms, and non-bearing tree fruits and nuts to control mites and whiteflies as described in the mixing and application below. Apply only for the sites, pests, and application methods described on this label.

**Prohibited Methods of Application**

- Do not apply this product aerially.
- **Chemigation:** Do not apply this product through any type of irrigation system.

**Protection of Workers or Other Persons**

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.

**State or Tribe Requirements**

For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

**Repackaging and Reformulation**

For end use only. Do not repackage or reformulate without manufacturer's written approval.

**Notice of Conditions of Sale**

Follow all applicable directions, restrictions, precautions and **Notice of Conditions of Sale and Warranty and Liability Limitations.**

**Label in User's Possession**

This labeling must be in the user's possession during application.

**Bee Restriction**

Do not apply this product or allow it to drift to blooming crops, weeds, or ornamentals while bees are visiting the treatment area.

**Water Body Buffer**

Do not apply within 100 feet of water bodies

**Stressed Plants**

Do not spray plants under stress.

**Phytotoxicity**

**GWN-1708** has been used successfully on many ornamental plants species. Do not treat new species or varieties without first testing a few plants on a small scale. Do not apply to roses

**FORMULATION, ROUTE OF EXPOSURE, TYPE OF ACTION**

**GWN-1708** is a suspension concentrate formulation that acts by contact to provide rapid knockdown of mites and whiteflies.

**MODE OF ACTION AND RESISTANCE**

**GWN-1708** is a METI (mitochondrial electron transport inhibitor) classified as Group 21. To prevent or delay resistance development, only apply a single application of **GWN-1708** per crop season. If additional chemical control is required, rotate to a product with a different mode of action grouping.

**MIXING DIRECTIONS**

**Dilution Rate**

Dilute **GWN-1708** in sufficient water to ensure application thoroughly covers foliage. Maintain agitation during mixing.

**Additives**

In general, no additives are necessary for effective use of **GWN-1708**.

However, in situations where local conditions such as hard water are a problem, use adjuvants or wetting agents to achieve thorough spray coverage.

**GENERAL TANK MIXING INFORMATION**

**Phytotoxicity**

The phytotoxic potential of **GWN-1708** has been assessed on a wide variety of common ornamental plants with no phytotoxicity observed. However, all plant species and their 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 those under which testing has been conducted. Therefore, before using **GWN-1708**, 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 recommended 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) **Water-dispersible products:** (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions)
- 3) **Emulsifiable concentrates**
- 4) **Water Soluble Products**
- 5) **Water-soluble additives**
- 6) **Remaining quantity water**

Maintain constant agitation during application.

**APPLICATION DIRECTIONS**

**Application Equipment**

Application can be made with the following types of low or high volume spray equipment: machine ground spray application (open cab groundboom), ground spray application (open cab airblast sprayer), high pressure hand wand sprayer, backpack sprayer.

**Constant Agitation Before and During Application**

Shake well before using and frequently while applying. If agitation is stopped for an extended period of time, the spray solution must be thoroughly re-mixed prior to further use.

**Importance of Coverage**

Thorough coverage is required for optimum control

**Application Rates**

Apply GWN-1708 at rates in Table 1. Do not apply during conditions when product will drift to all other crops and non-target areas.

Table 1. Application Rates Per Cropping and Year for Sites and Pests Controlled by GWN-1708 Miticide/Insecticide		
SITES	PESTS	APPLICATION RATES
Ornamental plants (greenhouse, shade houses)	MITES, WHITEFLIES	<p><b>Mites</b> = 12 - 24 fl oz per 100 gallons of water                      12 - 24 fl oz /acre per cropping                      (0.28 - .55 fl oz/1000 sq ft/per cropping)                      (0.15 - 0.30 lb ai/acre per cropping)</p> <p><b>Whiteflies</b> = 18 - 24 fl oz per 100 gallons of water                      18-24 fl oz/ acre per cropping                      (0.41 - .55 fl oz/1000 sq ft/per cropping)                      (0.22 - 0.30 lb ai/acre per cropping)</p>
		<ul style="list-style-type: none"> <li>Do not make more than one application per cropping.</li> <li>Do not exceed 24 ozs per acre per year for outdoor applications</li> <li>Do not exceed 48 ozs per acre per year for indoor applications</li> </ul>
Christmas Tree Plantations and Ornamental plants (field grown, outdoor)	MITES, WHITEFLIES	<p><b>Mites</b> = 12 - 24 fl oz per 100 gallons of water                      12 - 24 fl oz /acre per cropping                      (0.28 - .55 fl oz/1000 sq ft/per cropping)                      (0.15 - 0.30 lb ai/acre per cropping)</p> <p><b>Whiteflies</b> = 18 - 24 fl oz per 100 gallons of water                      18-24 fl oz/ acre per cropping                      (0.41 - .55 fl oz/1000 sq ft/per cropping)                      (0.22 - 0.30 lb ai/acre per cropping)</p>
		<ul style="list-style-type: none"> <li>Do not make more than one application per cropping.</li> <li>Do not exceed 24 ozs per acre per year for outdoor applications</li> </ul>
Non-bearing tree fruits and Nuts (field grown and nursery) <i>Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application</i>	MITES, WHITEFLIES	<p><b>Mites</b> = 12 - 24 fl oz per 100 gallons of water                      12 - 24 fl oz /acre per cropping                      (0.28 - .55 fl oz/1000 sq ft/per cropping)                      (0.15 - 0.30 lb ai/acre per cropping)</p> <p><b>Whiteflies</b> = 18 - 24 fl oz per 100 gallons of water                      18-24 fl oz/ acre per cropping                      (0.41 - .55 fl oz/1000 sq ft/per cropping)                      (0.22 - 0.30 lb ai/acre per cropping)</p>
		<ul style="list-style-type: none"> <li>Do not make more than one application per cropping.</li> <li>Do not exceed 24 ozs per acre per year for outdoor applications</li> <li>Do not exceed 48 ozs per acre per year for indoor applications</li> </ul>
Established Ornamental Landscape Plantings, including those in: interiorscapes, residences, public areas, commercial areas, institutional areas, industrial areas, rights of way and other easements, and recreational sites such as campgrounds, golf courses, parks and athletic fields	MITES, WHITEFLIES	<p><b>Mites</b> = 12 - 24 fl oz per 100 gallons of water                      12 - 24 fl oz /acre per cropping                      (0.28 - .55 fl oz/1000 sq ft/per cropping)                      (0.15 - 0.30 lb ai/acre per cropping)</p> <p><b>Whiteflies</b> = 18 - 24 fl oz per 100 gallons of water                      18-24 fl oz/ acre per cropping                      (0.41 - .55 fl oz/1000 sq ft/per cropping)                      (0.22 - 0.30 lb ai/acre per cropping)</p>
		<ul style="list-style-type: none"> <li>Do not make more than one application per cropping.</li> <li>Do not exceed 24 ozs per acre per year for outdoor applications</li> <li>Do not exceed 48 ozs per acre per year for indoor applications</li> </ul>

**Amount of GWN-1708 Miticide/Insecticide and Water to Apply**

Use Table 2 to calculate the amount of GWN-1708 Miticide/Insecticide and water to apply.

**Table 2. Calculation of Amount of GWN-1708 Miticide/Insecticide and Water to Apply to Treat 1000 sq ft and 1 Acre at Rates in Table 1.<sup>1</sup>**

To treat ...	at this rate ...	use this amount of:	
		Water (gallons)	GWN-1708 Miticide/Insecticide
1000 sq ft	0.28 fl oz/1000 sq ft (0.15 lb/Acre)	2.3	0.28 fl oz or 1.7 teaspoons
	0.41 fl oz/1000 sq ft (0.22 lb /Acre)	2.3	0.41 fl oz or 2.5 teaspoons
	0.55 fl oz/1000 sq ft (0.30 fl oz/acre)	2.3	0.55 fl oz or 3.3 teaspoons
1 Acre	12 fl oz/Acre (0.15 lb/Acre)	100	12 fl oz
	18 fl oz/acre (0.22 lb /Acre)	100	18 fl oz
	24 fl oz/Acre (0.30 fl oz/acre)	100	24 fl oz

<sup>1</sup>To calculate the amount of product needed, multiply the amount of product by 1) number of acres or 2) number of 1000 sq ft areas (total sq ft/1000).

**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 Disposal:** 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**

**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. 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: GWN-1708 (sent 3-29-10)