



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

Gowan Company  
P.O. Box 5569  
Yuma, Arizona 85366-5569  
(800) 883-1844

Emergency telephone number: (928) 783-3803

For 24-hour emergency assistance (spill, leak, fire, or exposure), call CHEMTREC®:

Inside the U.S.: (800) 424-9300

Outside the U.S.: (703) 527-3887

For medical emergency: (888) 478-0798

**Product:** Nexter® Miticide/Insecticide  
**Signal Word:** WARNING  
**Active Ingredient:** Pyridaben (75%)  
**Chemical Name:** 2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one  
**Chemical Class:** Pyridazinone

**PCP Registration No.:** 25135  
**CAS No.:** 96489-71-3

### 2. HAZARDS IDENTIFICATION

**DANGER: FATAL IF INHALED. DO NOT BREATHE DUST, VAPOUR OR SPRAY MIST. AVOID CONTACT WITH SKIN, EYES OR CLOTHING.**

**HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS.**

#### Physical Properties

**Appearance:** Light tan powder  
**Odor:** Vanilla

#### Primary Routes of Exposure

May be fatal if inhaled. Do not breathe dust or spray mist. For handling activities, use dust/mist filtering respirator (MSHA/NIOSH approval numbers prefix TC-21 C), or a NIOSH approved respirator with a NPR, or HE prefilter. Wear long-sleeved shirt and long pants, socks and shoes and waterproof gloves. Harmful if swallowed or absorbed through skin. Avoid contact with skin. Remove contaminated clothing and wash before reuse. Causes moderate eye irritation. Do not get in eyes or on clothing. Wear goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling.

#### Medical Conditions Likely to be Aggravated by Exposure

No information found for this mixture.

#### Unusual Fire, Explosion, and Reactivity Hazards

Explosive dust/air mixtures can form in atmospheres as low as 9% oxygen. Ignition energy required is as low as 15 millijoules. Typical dust/air mixtures capable of exploding contain 40 g per cubic meter. Exotherm initiation temperature (Grewer oven): 394° C

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

	Component	CAS No.	% by weight
<b>Active Ingredient:</b>	Pyridaben	96489-71-3	75%

Only the identities of the active ingredient(s) and any *hazardous* inert ingredients are listed. Specific information on all of this product's ingredients can be obtained by the treating medical professional or spill emergency responder for the management of exposures, spills, or safety assessments.

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## 4. FIRST AID MEASURES

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<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>

Have the product container or label with you when calling a poison control center or doctor or going for treatment.  
**FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT CALL 1-888-478-0798.**

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## 5. FIRE FIGHTING MEASURES

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**Flashpoint (test method):** Not determined  
**Flammable Limits (% in air):** Not determined  
**Autoignition Temperature:** Exotherm initiation temperature (Greiner oven): 394° C  
**Flammability:** Non flammable solid

**Appropriate Extinguishing Media**

Use water fog, foam, CO<sub>2</sub>, or dry chemical extinguishing media.

**Fire Fighting Guidance**

Firefighters should be equipped with self-contained breathing apparatus and turnout gear. Care should be taken to decontaminate firefighters and equipment.

**Unusual Fire, Explosion, and Reactivity Hazards**

Explosive dust/air mixtures can form in atmospheres as low as 9% oxygen. Ignition energy required is as low as 15 millijoules. Typical dust/air mixtures capable of exploding contain 40 g per cubic meter. Exotherm initiation temperature (Greiner oven): 394° C

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## 6. ACCIDENTAL RELEASE MEASURES

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**In Case of Spills or Leaks**

Emergency response workers should wear a SCBA with Level B protection if dusts will be generated. If possible, keep spilled material dry and recover for use. Spilled material may be carefully swept up and returned to original container.

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## 7. HANDLING AND STORAGE

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May be fatal if inhaled. Do not breathe dust or spray mist. For handling activities, use dust/mist-filtering respirator (MSHA/NIOSH approval numbers prefix TC-21C), or a NIOSH approved respirator with N, P, R, or HE pre-filter. Wear long-sleeved shirt and long pants, socks and shoes and waterproof gloves. Harmful if swallowed or absorbed through skin. Avoid contact with skin. Remove contaminated clothing and wash before reuse. Causes moderate eye irritation. Do not get in eyes or on clothing. Wear goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling.

**Precautions in storing**

- Store in original tightly closed container. Do not expose water-soluble bags to moisture.
- Do not ship or store near food, feed, seed and fertilizers.
- Store in cool, dry, locked, well-ventilated area without floor drain.

**Storage**

Store in a cool, dry place away from heat or open flame. This package contains water-soluble bags inside a foil liner (overwrap). Do not remove the water-soluble bags from the overwrap except for immediate use. If all the water-soluble bags are not used, carefully reseal the overwrap. The water-soluble bags may break if they are exposed to moisture, handled excessively, or handled with wet hands or wet gloves.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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1. **KEEP OUT OF REACH OF CHILDREN.**
2. May be harmful if swallowed. Do not take internally.
3. May be fatal if inhaled. Do not inhale dust, vapour or spray mist. May irritate eyes. Avoid contact with eyes, skin and clothing.
4. Wash thoroughly after handling and before eating, drinking or smoking.
5. Wear long-sleeved shirt, long pants, rubber boots, goggles, gloves (rubber, PVC, neoprene or nitrile), hat and a dust/mist filtering respirator during mixing, loading and application. DO NOT re-enter treated areas within 24 hours. If required, individuals may re-enter treated areas within 24 hours for short-term tasks not involving hand labour if at least 4 hours has passed since application and long pants, long-sleeved shirt, hat and chemical-resistant gloves are worn.
6. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
7. Clean spray equipment thoroughly after use.
8. Do not contaminate domestic or irrigation water, lakes, streams or ponds by the cleaning of equipment or the disposal of wastes.
9. This product is highly toxic to bees exposed to direct treatment or residues on crops. Do not apply or allow **Nexter** to drift to crops or weeds on which bees are actively foraging. Do not allow spray to drift towards beehives.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** Light tan powder  
**Melting Point:** N/A  
**Boiling Point:** N/A  
**Specific Gravity/  
Density:** 15.6 lb/ft(3) packed; 13.45 lb/ft(3) free fall

**Solubility in H<sub>2</sub>O:** Dispersible  
**Vapor Pressure:** Not determined

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## 10. STABILITY AND REACTIVITY

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**Stability:** Stable under normal conditions; relatively unstable to light.  
**Hazardous  
Polymerization:** Does not occur  
**Decomposition  
Products:** HCl, NO<sub>x</sub>, SO<sub>x</sub>, CO  
**Hazardous  
Mixtures:** Pyridaben is a reducing agent – AVOID OXIDIZERS  
**Conditions  
To Avoid:** Not applicable

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## 11. TOXICOLOGICAL INFORMATION

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### Acute Toxicity/Irritation Studies

Rat, Acute Oral LD<sub>50</sub> = 1930 mg/kg  
Rat, Acute Dermal LD<sub>50</sub> > 2000 mg/kg  
Rat, Acute Inhalation LC<sub>50</sub> (4 hour) = 0.09 mg/L  
Rat, Acute Inhalation LC<sub>50</sub> (1 hour) (calculated) = 0.36 mg/L  
Rabbit, Eye Irritation - not irritating  
Rabbit, Skin Irritation - Non irritating to skin  
Guinea pig, Dermal Sensitizer - Not sensitizing

Pyridaben was found not to be teratogenic in two species tested, but at a maternally toxic dose the compound did produce only slight non-specific developmental effects in one species.

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## 12. ECOLOGICAL INFORMATION

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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 when disposing 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 toxic to bees. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Application early in the morning or at dusk is suggested.

### For the active ingredient:

Bluegill sunfish, LC <sub>50</sub> (96-h):	1.8-3.3 3 µg/L
Rainbow trout, LC <sub>50</sub> (96-h):	0.73 µg/L
Green algae, EC <sub>50</sub> (48-h):	> 1 mg/L
<i>Daphnia magna</i> , EC <sub>50</sub> (48-h):	0.38 µg/L
Bobwhite Quail, Oral LD <sub>50</sub> :	> 2250 mg/kg
Mallard Duck, Oral LD <sub>50</sub> :	> 2500 mg/kg
Honeybees, LD <sub>50</sub> (contact):	0.024 µg/bee

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## 13. DISPOSAL CONSIDERATION

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### Pesticide Disposal

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable federal, provincial or municipal regulations.

### Container Disposal

Completely empty bag into application equipment. Then dispose of the container and empty water soluble bags in accordance with applicable federal, provincial or municipal regulations. **DO NOT REUSE THE EMPTY BAGS.**

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## 14. TRANSPORT INFORMATION

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### TDG Classification

UN 2588, PESTICIDE, SOLID, TOXIC, NOS (contains pyridaben), Class 6.1, PG II

### IMDG Classification

UN 2588, PESTICIDE, SOLID, TOXIC, NOS (contains pyridaben 75%), 6.1, PG II, Marine Pollutant

### IATA/ICAO Classification

UN 2588, PESTICIDE, SOLID, TOXIC, NOS (contains pyridaben), 6.1, PG II

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## 15. REGULATORY INFORMATION

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### WHMIS Classification

This product is registered under the Pest Control Products Act and has been prepared in accordance with the WHMIS requirements.

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## 16. OTHER INFORMATION

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### Prepared By:

Gowan Company  
(800) 883-1844

### NFPA Hazard Ratings

<b>Health:</b>	4	0	Least
<b>Flammability:</b>	3	1	Slight
<b>Reactivity:</b>	1	2	Moderate
		3	High
		4	Severe

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