

1. PRODUCT AND COMPANY IDENTIFICATION

Formulator: Gowan Company
 P.O. Box 5569
 Yuma, Arizona 85366-5569
 (928) 783-8844

Emergency Phone: (928) 783-3803
For 24-Hour Emergency Assistance (Spill, Leak, Fire, or Exposure), Call CHEMTREC[®]:
For Medical Emergency:

Inside the U.S.: (800) 424-9300
Outside the U.S.: (703) 527-3887
 (888) 478-0798

Product: Dyno-Mite[™] Miticide/Insecticide



Signal Word: **WARNING** **POISON**
PCP Registration No.: 25229
Active Ingredient: Pyridaben (75%)
CAS No.: 96489-71-3
Chemical Class: Pyridazinone

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

INGREDIENT NAME	OSHA – PEL	ACGIH – TLV	OTHER	NTP/IARC/OSHA CARCINOGEN
Pyridaben (75%)	0.01 mg/m ³ *	Not Established	Not Established	None

*Manufacturer's recommendation

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.

4. FIRST AID MEASURES

IN CASE OF EYE CONTACT: Flush eyes IMMEDIATELY with flowing water for at least 15 minutes and consult a physician or contact a poison control centre if irritation develops.

IN CASE OF SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and launder separately from household laundry before re-use. Consult a physician or contact a poison control centre IMMEDIATELY if irritation develops.

IF SWALLOWED: Call a physician or poison control centre IMMEDIATELY. Drink promptly a large quantity of milk, egg whites, gelatin solution or, if these are not available, drink large quantities of water. Avoid alcohol. **Do not induce vomiting** or give anything by mouth to an unconscious person.

IF INHALED: Remove person to fresh air. Assist breathing if necessary. Consult a physician or contact a poison control centre IMMEDIATELY.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

5. FIRE FIGHTING MEASURES

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

Appropriate Extinguishing Media

Use water fog, foam, CO₂, 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 (Grewer oven): 394° C

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 **DYNO-MITE** to drift to crops or weeds on which bees are actively foraging. Do not allow spray to drift towards beehives.

9. PHYSICAL AND CHEMICAL PROPERTIES

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 H₂O: Dispersible
Vapor Pressure: Not determined

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions; relatively unstable to light.
**Hazardous
Polymerization:** Does not occur
**Decomposition
Products:** HCl, NO_x, SO_x, CO
**Hazardous
Mixtures:** Pyridaben is a reducing agent – AVOID OXIDIZERS
**Conditions
To Avoid:** Not applicable

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Rat, Acute Oral LD₅₀ = 1930 mg/kg
Rat, Acute Dermal LD₅₀ > 2000 mg/kg
Rat, Acute Inhalation LC₅₀ (4 hour) = 0.09 mg/L
Rat, Acute Inhalation LC₅₀ (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.

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATION

Pesticide Disposal:

Pesticide wastes are acutely hazardous. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

Container Disposal:

Dispose of the container in accordance with provincial requirements.

Water-soluble packaging: The outer case and inner overwrap packaging of the water-soluble bag should be incinerated or disposed of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Make the empty container unsuitable for further use. Follow provincial instructions for any required cleaning of the container prior to its disposal.

14. TRANSPORT INFORMATION

TDG Classification

UN 2588, Pesticides, solid, toxic, NOS (contains Pyridaben 75%), 6.1, PG II

IMDG Classification

UN 2588, Pesticides, solid, NOS (contains Pyridaben 75%), 6.1, PG II, Marine Pollutant

IATA/ICAO Classification

UN 2588, Pesticides, solid, NOS (contains Pyridaben 75%), 6.1, PG II

15. REGULATORY INFORMATION

Federal Regulations

Registration Status:

DSL, CA released / exempt

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. OTHER INFORMATION

Prepared By:

Gowan Company
(928) 783-8844

Notice: The information and recommendations contained herein are provided in good faith and are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information herein.

Dyno-Mite™ is a trademark of Nissan Chemical Industries, Ltd.