

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: **DYNO-MITE® Miticide/Insecticide**
wettable powder formulation

· CAS Number: Pyridaben (75.0%): 96489-71-3

· Registration number PCP Registration No.: 25229

· 1.2 Relevant identified uses of the substance or mixture and uses advised against

· Sector of Use Agriculture

· Application of the substance / the mixture Group 21 Insecticide

· 1.3 Details of the supplier of the safety data sheet

Supplier:

Plant Products Inc

50 Hazelton St

Leamington, ON N8H 1B8

519-326-9037

Registrant Name: Plant Products Inc.

Manufacturer

Gowan Company

P.O. Box 5569

Yuma, Arizona 85366-5569

(800) 883-1844

· Further information obtainable from: sds@gowanco.com

· 1.4 Emergency telephone number: **24 HOUR CANUTEC 1-613-996-6666 (call collect)**

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.

· Additional information:

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

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· 2.2 Label elements

WARNING / POISON

HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN

· **Labelling according to EU guidelines:** Not applicable

· **Hazard-determining components of labelling:**

Pyridaben

· **Information concerning particular hazards for human and environment:**

DANGER: fatal if inhaled. Do not breathe dust, vapour or spray mist.

Avoid contact with skin, eyes or clothing.

· 2.3 Other hazards

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

Pyridaben

T R23/25; N R50/53

Acute Tox. 3, H301; Acute Tox. 3, H331; Aquatic Acute 1, H400; Aquatic Chronic 1, H410

75.0%

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information:**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also contact 1-888-478-0798 for emergency medical treatment information.

· **After inhalation:**

• Move person to fresh air.

• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

• Call poison control center or doctor for further treatment advice.

· **After skin contact:**

• Take off contaminated clothing.

• Rinse skin immediately with plenty of water for 15-20 minutes.

• Call a poison control center or doctor for treatment advice.

· **After eye contact:**

• Hold eye open and rinse slowly and gently with water for 15-20 minutes.

• Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes.

• Call a poison control center or doctor for treatment advice.

· **After swallowing:**

• Call a poison control center or doctor immediately for treatment advice.

• Have person sip a glass of water if able to swallow.

• Do not induce vomiting unless told to do so by a poison control center or doctor.

• Do not give anything by mouth to an unconscious person.

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- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
 - **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
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
- **5.3 Advice for firefighters**
 - **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
May be fatal if inhaled. Do not inhale dust, vapour or spray mist. May irritate eyes. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling and before eating, drinking or smoking. 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.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Pick up mechanically.
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
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.

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· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool, dry place. This package contains water-soluble bags inside a foil liner (overwrap). The water-soluble bags dissolve in water and the contents will disperse. If all the water-soluble bags are not used, carefully reseal the overwrap. Each overwrap contains five water-soluble bags. Do not remove the water-soluble bags from the overwrap except for immediate use. If exposed to moisture, the water-soluble bags may break.

· **Information about storage in one common storage facility:** Store this product away from food or feed.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Keep container tightly sealed.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

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.

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- 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.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**



Safety glasses

· **Body protection:**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves
- Protective eye wear
- For handling activities, use dust/mist filtering respirator (MSHA/NIOSH approval numbers prefix TC-21C), or a NIOSH approved respirator with a N, P, R, or HE pre-filter.
- Chemical resistant headgear for overhead exposure.

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.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

- | | |
|---------------------------|-----------------|
| · Form: | Powder |
| · Colour: | Light tan |
| · Odour: | Vanilla |
| · Odour threshold: | Not determined. |

· **pH-value:** Not applicable.

· **Change in condition**

- | | |
|---------------------------------------|---------------|
| · Melting point/Melting range: | Undetermined. |
| · Boiling point/Boiling range: | Undetermined. |

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not determined.

· **Ignition temperature:**

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

- | | |
|-----------------|-----------------|
| · Lower: | Not determined. |
| · Upper: | Not determined. |

· **Vapour pressure:** Not applicable.

- | | |
|------------------------------------|---|
| · Density at 20 °C (68 °F): | .2154 g/cm ³ (.975.13 lbs/gal) (chute libre) |
| · Relative density | Not determined. |

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· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with · water:	Dispersible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
· Dynamic:	Not applicable.
· Kinematic:	Not applicable.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability** Stable under normal conditions
 - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidizers
- **10.6 Hazardous decomposition products:**
 - Hydrogen chloride (HCl)
 - Nitrogen oxides (NOx)
 - Sulphur oxides (SOx)
 - Carbon monoxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity:**

· LD/LC50 values relevant for classification:		
Oral	LD50	=1930 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	=0.09 mg/l (rat)

- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritating effect.
- **Sensitisation:** No sensitising effects known.

SECTION 12: Ecological information

- **12.1 Toxicity**

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 visiting the treatment area. Application early in the morning or at dusk is suggested.

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- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
 - **Remark:** Very toxic for fish
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation**
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.
 - **Uncleaned packaging:**
 - **Recommendation:**
Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. The outer case and inner overwrap packaging of the water-soluble bag should be offered for recycling, if available or disposed of in a sanitary landfill, or by other procedures approved by state and local authorities. If burned, stay out of smoke. Do not re-use the empty packaging.

SECTION 14: Transport information

- | | |
|---|---|
| <ul style="list-style-type: none"> · 14.1 UN-Number · DOT · TDG, IMDG, IATA | <p>UN3288</p> <p>UN2588</p> |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · TDG · IMDG · IATA | <p>UN2588, PESTICIDE, SOLID, TOXIC, NOS (Pyridaben 75%), 6.1, PGII</p> <p>UN2588, PESTICIDES, SOLIDE, TOXIQUE, NSA (Pyridaben 75%), 6.1, GPII, pollutant marin</p> <p>UN2588, PESTICIDES, SOLIDE, TOXIQUE, NSA (Pyridaben 75%), 6.1, GPII</p> |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · 14.3 TDG, IATA | <div style="text-align: center;">  </div> <p>· Class</p> |
| | <p>6.1 Toxic substances.</p> |

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· Label	6.1
· IMDG	
	
· Class	6.1 Toxic substances.
· Label	6.1
· 14.4 Packing group	
· TDG, IMDG, IATA	II
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: Pyridaben
· Marine pollutant:	Yes Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Toxic substances.
· Danger code (Kemler):	60
· EMS Number:	F-A,S-A
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· TDG	
· Excepted quantities (EQ):	E4
· Limited quantities (LQ)	500 g
· UN "Model Regulation":	UN2588, PESTICIDE, SOLID, TOXIC, NOS (Pyridaben 75%), 6.1, PGII

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
 - H301 Toxic if swallowed.
 - H331 Toxic if inhaled.
 - H400 Very toxic to aquatic life.
 - H410 Very toxic to aquatic life with long lasting effects.
- **R23/25 Toxic by inhalation and if swallowed.**
- **R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**
- **Department issuing MSDS:** Supply Chain
- **Contact:** sds@gowanco.com

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· **Abbreviations and acronyms:**

ICAO: International Civil Aviation Organisation

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 3: Acute toxicity, Hazard Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

· **Sources** DYNOMITE® is a registered trademark of Nissan Chemical Industries, Ltd

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