

1 Identification

1.1 Product identifier

· **Trade name:** *Dyno-Mite SC® Miticide/Insecticide*

· **CAS Number:**

Pyridaben (450 g/L): 96489-71-3

Registration number: PCP Registration No.: 33434

Group 21 Insecticide

· **Application of the substance / the mixture** Agricultural Miticide/Insecticide

1.3 Details of the supplier of the safety data sheet

· **Manufacturer/Supplier:**

Gowan Company

P.O. Box 5569

Yuma, Arizona 85366-5569

(800) 960-4318

· **Information department:** *sds@gowanco.com*

1.4 Emergency telephone number:

Chemtrec® Emergency Telephone 24 - Hours: (Spills, leak or fire) Inside U.S. & Canada: (800) 424-9300

Outside the U.S. & Canada: +011 (703) 527-3887

For medical emergency (Prosar®): (888) 478-0798

2 Hazard identification

2.1 Classification of the substance or mixture

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



GHS09 Environment

Aquatic Acute 1

H400 Very toxic to aquatic life.

Aquatic Chronic 1

H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Toxicity (Oral) - Category 4

H302 Harmful if swallowed.

Acute Toxicity (Inhalation) - Category 4

H332 Harmful if inhaled.

Skin Sensitizer - Category 1

H317 May cause an allergic skin reaction.

2.2 Label elements

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labeled according to the CLP regulation.

· **Hazard pictograms**



GHS07 GHS09

· **Signal word** Warning

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

Pyridaben

1,2-benzisothiazolin-3-one

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· Hazard statements

- H302+H332 Harmful if swallowed or if inhaled.
 H317 May cause an allergic skin reaction.
 H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves.
 P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
 P330 Rinse mouth.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Hazard description:

EYE AND SKIN IRRITANT
 POTENTIAL SKIN SENSITIZER

· Classification system:

- NFPA ratings (scale 0 - 4)



Health = 1
 Fire = 0
 Reactivity = 0

HAZARD INDEX:

- 4 Severe Hazard
 3 Serious Hazard
 2 Moderate Hazard
 1 Slight Hazard
 0 Minimal Hazard

· 2.3 Other hazards

- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/Information on ingredients

· 3.2 Chemical characterization: Mixtures

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

· Dangerous components:

CAS: 96489-71-3	Pyridaben Acute Toxicity (Oral) - Category 3, H301; Acute Toxicity (Inhalation) - Category 3, H331; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	45.0% w/w
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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-

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- 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.
- **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**
The patient should be treated symptomatically.

5 Firefighting measures

- **5.1 Extinguishing media**
 - **Suitable extinguishing agents:**
CO₂, extinguishing 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.
- **5.3 Advice for firefighters**
Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire. Contain run-off.
 - **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
TOXIC to bees. Bees may be exposed through direct spray, spray drift, and residues on leaves, pollen and nectar in flowering crops and weeds.
TOXIC to beneficial arthropods.
TOXIC to birds.
TOXIC to small wild mammals.
TOXIC to aquatic organisms.
TOXIC to non-target terrestrial plants.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **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.

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7 Handling and storage

· 7.1 Precautions for safe handling

Harmful or fatal if swallowed.

Harmful if inhaled. Avoid inhaling vapour or spray mist.

May irritate eyes and skin. Avoid contact with eyes, skin and clothing.

Potential skin sensitizer.

· **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· **Requirements to be met by storerooms and receptacles:** Store in a cool, dry place.

· **Information about storage in one common storage facility:**

Keep away from food, drink and feed.

Do not ship or store near food, feed, seed and fertilizers.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

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

8 Exposure controls/ Personal protection

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

· 8.1 Control parameters

· **Components 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 that were valid during the creation were used as basis.

· 8.2 Exposure controls

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

· **Material of gloves** Chemical-resistant made of any waterproof material

· **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.

· **Eye protection:**



Safety glasses

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- **Body protection:**
Applicators and other handlers must wear:
 - Long sleeved shirt and long pants
 - Chemical resistant gloves
 - Shoes plus socks

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

- **Form:** Liquid
- **Color:** Off-white
- **Odor:** Odorless
- **Odor threshold:** Not determined.

· **pH-value at 20 °C (68 °F):** 6.7

· Change in condition

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** Undetermined.

· **Flash point:** Not applicable.

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

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not self-igniting.

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

· Explosion limits:

- **Lower:** Not determined.
- **Upper:** Not determined.

· **Vapor pressure:** Not determined.

· **Density at 20 °C (68 °F):** 1.057 g/cm³ (8.82067 lbs/gal)

· **Relative density:** Not determined.

· **Vapor density:** Not determined.

· **Evaporation rate:** Not determined.

· Solubility in / Miscibility with

· **Water:** Dispersible.

· **Partition coefficient (n-octanol/water):** Not determined.

· Viscosity:

· **Dynamic:** Not determined.

· **Kinematic:** Not determined.

· **9.2 Other information** No further relevant information available.

10 Stability and reactivity

· **10.1 Reactivity** No decomposition if used according to rules.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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- **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:** No dangerous decomposition products known.

11 Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity:

Harmful if swallowed or if inhaled.

· LD/LC50 values that are relevant for classification:

Oral	LD50	1,098 mg/kg (rat) female
Dermal	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	>2.1 mg/l (rat)

· Primary irritant effect:

- **on the skin:** Slightly irritating
- **on the eye:** Moderately Irritating

· Sensitization:

May cause an allergic skin reaction.

· Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

· NTP (National Toxicology Program)

None of the ingredients are listed.

12 Ecological information

· 12.1 Toxicity

TOXIC to bees. Bees may be exposed through direct spray, spray drift, and residues on leaves, pollen and nectar in flowering crops and weeds

TOXIC to beneficial arthropods.

TOXIC to birds.

TOXIC to small wild mammals.

TOXIC to aquatic organisms.

TOXIC to non-target terrestrial plants.

· **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:** Toxic for fish

· Additional ecological information:

· General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

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- Very toxic for aquatic organisms*
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
 - **12.6 Other adverse effects** No further relevant information available.


13 Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation:**
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.
 - **Uncleaned packagings:**
 - **Recommendation:**
DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:
 1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
 2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

14 Transport information

- **14.1 UN-Number**
 - **DOT/TDG, ADR, IMDG, IATA** UN3287
- **14.2 UN proper shipping name**
 - **DOT/TDG** Toxic liquid, inorganic, n.o.s. (Pyridaben)
 - **ADR** 3287 TOXIC LIQUID, INORGANIC, N.O.S. (Pyridaben), ENVIRONMENTALLY HAZARDOUS
 - **IMDG** TOXIC LIQUID, INORGANIC, N.O.S. (Pyridaben, 1,2-benzisothiazolin-3-one), MARINE POLLUTANT
 - **IATA** TOXIC LIQUID, INORGANIC, N.O.S. (Pyridaben)
- **14.3 Transport hazard class(es)**
 - **14.3 DOT/TDG (Transport dangerous goods):**



TOXIC
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 - **Class** 6.1 Toxic substances
 - **Label** 6.1

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· ADR, IMDG



· Class 6.1 Toxic substances
 · Label 6.1

· IATA



· Class 6.1 Toxic substances
 · Label 6.1

· 14.4 Packing group

· DOT/TDG, ADR, IMDG, IATA III

· 14.5 Environmental hazards:

Product contains environmentally hazardous substances:
 Pyridaben

· Marine pollutant: Symbol (fish and tree)
 · Special marking (ADR): Symbol (fish and tree)

· 14.6 Special precautions for user

Warning: Toxic substances

· Danger code (Kemler): 60
 · EMS Number: F-A,S-A
 · Stowage Category: A
 · Stowage Code: SW2 Clear of living quarters.

· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

· Transport/Additional information:

· DOT/TDG

· Quantity limitations On passenger aircraft/rail: 60 L
 On cargo aircraft only: 220 L

· ADR

· Excepted quantities (EQ) Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml

· IMDG

· Limited quantities (LQ) 5L
 · Excepted quantities (EQ) Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation":

UN 3287 TOXIC LIQUID, INORGANIC, N.O.S. (Pyridaben),
 6.1, III, ENVIRONMENTALLY HAZARDOUS

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15 Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **SARA Title III**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act):**

CAS: 2634-33-5 | 1,2-benzisothiazolin-3-one

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

CAS: 2634-33-5 | 1,2-benzisothiazolin-3-one

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients are listed.

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials:**

Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

· **Department issuing SDS:** Supply Chain

· **Contact:** sds@gowanco.com

· **Date of the latest revision of the safety data sheet** 07/09/2019 / 7

· **Abbreviations and acronyms:**

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)

NFPA: National Fire Protection Association (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative

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· * **Data compared to the previous version altered.**

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