



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

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

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: **Magister Miticide**

EPA Signal Word: Warning **EPA Registration No.:** 10163-297

Active Ingredient: Fenazaquin (18.79%) **CAS No.:** 120928-09-8

Chemical Name: *4-tert-butylphenethyl quinazolin-4-yl ether (IUPAC)*

Chemical Class: Quinazoline

2. HAZARDS IDENTIFICATION

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.

Physical Properties

Appearance: Pale brown opaque liquid
Odor: Non-distinctive chemical odor

Environmental hazards: Very toxic to aquatic organisms; may cause long-term adverse effects to the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	OSHA – PEL	ACGIH – TLV	OTHER	NTP/IARC/OSHA CARCINOGEN
Fenazaquin (18.79%)	N/A	N/A	N/A	None

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

- If inhaled:**
- 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.
- If swallowed:**
- Call a poison control center or doctor for further treatment advice.
 - Have the 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 to an unconscious person.
- If on skin or clothing:**
- Call a poison control center or doctor immediately for treatment advice.
 - 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.

4. FIRST AID MEASURES - continued

If in eyes:

- 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 eye.
- Call a poison control center or doctor for treatment advice.

HOTLINE NUMBER

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.

NOTE TO PHYSICIAN

If ingested, the product may cause irritation of the GI tract, vomiting and diarrhea. Treatment should be symptomatic and supportive. No antidote is recommended.

5. FIRE FIGHTING MEASURES

Flashpoint (test method): Not applicable

Autoignition Temperature: 490 ± 10°C

Flammability: Not applicable

Appropriate Extinguishing Media

Water spray, foam, dry chemical, CO₂

Fire Fighting Guidance

Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Cool tank/container with water spray.

Unusual Fire, Explosion, and Reactivity Hazards

If product is involved in fire and water evaporates, toxic, irritating vapors may be produced.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spills or Leaks

Use proper protective equipment to minimize personal exposure during cleanup. Insure that the disposal is in compliance with relevant laws and regulations.

Keep material out of streams and sewers. Dike to confine spill and absorb with an absorbent such as clay, sand or soil. Vacuum, shovel or pump wastes into a drum for later disposal. Wash area with water and detergent thoroughly and collect washwaters into a drum for later disposal.

7. HANDLING AND STORAGE

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.

Precautions in storing

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale brown opaque liquid
Relative Density: 1.094 g/mL @ 20°C
pH: 7.82 (1% w/v dilution)
Solubility in H₂O Miscible

10. STABILITY AND REACTIVITY

Chemical Stability

Is stable under normal storage conditions.

Conditions to Avoid

Avoid extremes of temperature.

Materials to Avoid

Strong basic, acidic or oxidizing materials.

Hazardous Decomposition Products

None under normal conditions of storage and use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Acute Oral LD₅₀ (rat): 434 mg/kg
Acute Dermal LD₅₀ (rat): >5000 mg/kg
Acute Inhalation LC₅₀ (rat): 1.46 mg/L
Primary Eye Irritation (rabbit): Mildly irritating
Primary Dermal Irritation (rabbit) Moderately irritating

12. ECOLOGICAL INFORMATION

Persistence and Degradability

The major route of degradation is by photolysis and photo degradation. Half-life in soils is dependent on soil type and conditions and is approximately 28-112 days. Tightly bound to soil and is extremely resistant to leaching and elution.

Aquatic Toxicity

Material is highly toxic to fish on an acute basis (LC₅₀ is <0.1mg/L-1.0mg/L).
Material is highly toxic to aquatic invertebrates on an acute basis (LC₅₀ <0.1mg/L).

Avian Toxicity

For birds, material is expected to be of low toxicity.

13. DISPOSAL CONSIDERATION

Do not contaminate water, food, or feed by storage or disposal.

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 ¼ 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.

14. TRANSPORT INFORMATION

DOT Classification

UN2902, PESTICIDE LIQUID, TOXIC, N.O.S., (contains fenazaquin), 6.1, PG III

IMDG Classification

UN2902, PESTICIDE LIQUID, TOXIC, N.O.S., (contains fenazaquin), 6.1, PG III

IATA Classification

UN2902, PESTICIDE LIQUID, TOXIC, N.O.S., (contains fenazaquin), 6.1, PG III

15. REGULATORY INFORMATION

SARA Title III Classification

Section 302/304:

Section 311/312:

Immediate (acute) health hazard

Delayed (chronic) health hazard

Section 313 chemical(s):

Not applicable

Proposition 65

Not applicable

CERCLA Reportable Quantity (RQ)

Not applicable

RCRA Classification

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA Status

Exempt

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 2
Flammability: 0
Reactivity: 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Prepared By:

Gowan Company
(800) 883-1844

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.