



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

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

Emergency Phone:
For 24-Hour Emergency
Assistance (Spill, Leak, Fire, or
Exposure), Call CHEMTREC®:

(928) 783-3803

For **MEDICAL** Emergency:

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

Product: Onager® Miticide
EPA Signal Word: Caution
Active Ingredient: Hexythiazox (11.8%)
Chemical Name: *trans*-5-(4-Chlorophenyl)-N-cyclohexyl-4-methyl-2-oxothiazolidine-3-carboxamide
Chemical Class: Carboxamide

EPA Registration No.: 10163-277
CAS No.: 78587-05-0

2. HAZARDS IDENTIFICATION

Physical Properties

Appearance: Pale yellow, liquid
Odor: Aromatic odor

Medical Conditions Likely to be Aggravated by Exposure

None known

Primary Routes of Exposure

May irritate eyes, nose, throat and skin.

Hazardous Decomposition Products

Decomposition will not occur

Unusual Fire, Explosion, and Reactivity Hazards

No explosive properties.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	OSHA – PEL	ACGIH – TLV	OTHER	NTP/IARC/OSHA CARCINOGEN
Hexythiazox (11.8%)	None	None	Not established	No

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 swallowed

- Call a poison control center or doctor immediately for treatment advice.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

If inhaled

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

If on skin or clothing

- Call a poison control center or doctor for further 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 the first 5 minutes, then continue rinsing.
 - Call a poison control center or doctor for treatment advice.

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

NOTE TO PHYSICIAN

May pose an aspiration pneumonia hazard. Contains petroleum distillate.

FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE: (888) 478-0798

5. FIRE FIGHTING MEASURES

Flashpoint (test method): 92.4°C
Flammable Limits (% in air): Not available
Autoignition Temperature: Not available

Appropriate Extinguishing Media

Use water spray, fog, dry chemical, or CO₂.

Fire Fighting Guidance

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Use water spray. Cool tank/container with water spray. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water will increase contamination hazard.

Unusual Fire, Explosion, and Reactivity Hazards

Toxic fumes such as hydrogen chloride (HCl) and oxides of nitrogen (NO_x) may develop if product is burned.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spills or Leaks

Keep unnecessary people away and isolate hazard area. Wear appropriate personal protective equipment described in Section 8. If spilled material is a liquid, prevent from entering sewers, waterways or low areas. Use an absorbent to absorb material, then shovel or sweep up and place into a clean container for disposal.

7. HANDLING AND STORAGE

Harmful if swallowed. Causes moderate eye irritation. Harmful if inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

Precautions in storing

DO NOT contaminate water, food or feed by storage or disposal.

Storing

Store in the original container only, away from other pesticides, fertilizers, food, or feed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face:	Not required; use normal safety precautions.
Skin Protection:	Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.
Respiratory Protection:	Not required; use normal safety precautions.
Additional Protection Information:	Emergency eyewash fountain should be located nearby. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Workers should avoid breathing dust and spray vapors or mist. Avoid dust generation. Avoid contact with eyes, skin and clothing.
Applicators/Handlers:	Applicators and other handlers must wear coveralls over short-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.
User Safety Recommendations:	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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Odor: Aromatic odor
Melting Point: Not applicable
Boiling Point: Unknown
**Specific Gravity/
Density:** 1.0476 g/ml
pH (25°): 5.78
Viscosity (24°C): 8.250 mm²/s (est)
**Oxidation/
Reduction:** Not an oxidizing or a reducing agent.

10. STABILITY AND REACTIVITY

Stability: Stable
**Hazardous
Polymerization:** Will not occur
**Decomposition
Products:** Decomposition will not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Ingestion:	Acute Oral LD ₅₀ (rat):	>5,000 mg/kg
Dermal:	Acute Dermal LD ₅₀ (rat):	>5,000 mg/kg
Inhalation:	Inhalation LC ₅₀ (rat):	>2.0 mg/L – 4 hour
Eye Contact:	Moderately and mildly irritating to the unrinsed and rinsed eye, respectively.	
Skin Contact:	Moderately irritating to the skin (rabbits)	
Skin Sensitizer:	Not a skin sensitizer (guinea pig)	

12. ECOLOGICAL INFORMATION

Summary of Effects

Hexythiazox

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. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or when disposing of equipment washwaters.

13. DISPOSAL CONSIDERATION

Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. For information concerning the proper disposal of pesticide-related wastes, contact your State Environmental Department, State Department of Agriculture, or the Regional Office of the Environmental Protection Agency for your area.

Container Disposal

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

DOT Classification

Not regulated

International Maritime Organization

Not regulated

International Civil Aviation Organization

Not regulated

15. REGULATORY INFORMATION

SARA Title III Classification

Section 302/304: Not applicable
Section 311/312: Immediate (acute) health hazard
Section 313 chemical(s): None

Proposition 65

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.

CERCLA Reportable Quantity (RQ)

Not applicable

16. OTHER INFORMATION

NFPA Hazard Ratings

Health:	2	0	Least
Flammability:	0	1	Slight
Reactivity:	0	2	Moderate
		3	High
		4	Severe

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.

Prepared By:

Gowan Company
(928) 783-8844

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