



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Manufactured for:
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®:

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

For MEDICAL Emergency:

Product: Hexygon® DF
EPA Signal Word: Caution
Active Ingredient: Hexythiazox (50.0%)
Chemical Name: *trans*-5-(4-Chlorophenyl)-N-cyclohexyl-4-methyl-2-oxothiazolidine-3-carboxamide
Chemical Class: Carboxamide

EPA Registration No.: 10163-251
CAS No.: 78587-05-0

2. HAZARDS IDENTIFICATION

Physical Properties

Appearance: Light tan granules
Odor: Faint ligneous odor

Symptoms of Acute Exposure

Not available

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

May be ignited by heat or open flame. Dust forms explosive mixture in air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	OSHA – PEL	ACGIH – TLV	OTHER	NTP/IARC/OSHA CARCINOGEN
Hexythiazox (50.0%)	None	None	Not established	No

4. FIRST AID MEASURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

IF ON SKIN OR CLOTHING: 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.

IF SWALLOWED: 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.

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

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

4. FIRST AID MEASURES (Continued)

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 TOLL FREE: (888) 478-0798

5. FIRE FIGHTING MEASURES

Flashpoint (test method): Not applicable to solid

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. Dispersion of fine dust in air may form explosive mixture.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spills or Leaks

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. Isolate area and keep unauthorized people away. Avoid breathing dusts and skin contact. Avoid generating dust (a fine water spray mist, plastic film cover, or floor sweeping compound may be used if necessary). Wear proper protective equipment. Place in covered container for reuse or disposal. Scrub contaminated area with detergent and bleach solution. Repeat. Rinse with water. Use dry absorbent material such as clay granules to absorb and collect the wash solution for proper disposal. Contaminated soil may have to be removed and disposed. Do not allow material to enter streams, sewers, or other waterways or contact vegetation.

7. HANDLING AND STORAGE

May irritate eyes, nose, throat and skin. Harmful if inhaled. Avoid breathing dust or spray mist. Avoid contact with skin, eyes or clothing. 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 product in 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 coveralls over short-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

Respiratory Protection: Not required; use normal safety precautions.

Other/General Protection: 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:	Light tan granules
Odor:	Faint ligneous odor
Melting Point:	105-107.5°C (technical)
Boiling Point:	Not applicable
Specific Gravity/ Density:	Not applicable
Solubility in H₂O	
Hexythiazox	0.5 mg/l @ 20° C (technical)
Vapor Pressure	
Hexythiazox	3.38 x 10 ⁻⁶ Pa @ 20° C (technical)

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will not occur
Decomposition Products:	Decomposition will not occur
Hazardous Mixtures:	None known
Conditions To Avoid:	None known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Ingestion:	Acute Oral LD ₅₀ (mice):	>5,000 mg/kg body weight
	Acute Oral LD ₅₀ (rat):	>5,000 mg/kg
Dermal:	Acute Dermal LD ₅₀ (rat):	>5,000 mg/kg body weight
Inhalation:	Inhalation LC ₅₀ (rat):	2.8 mg/L – 4 hour
Eye Contact:	Slight irritant	
Skin Contact:	Not a skin irritant (rabbits)	
Skin Sensitizer:	Not a skin sensitizer (guinea pig)	

Carcinogenic Potential
None

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 disposing of equipment wash waters.

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.

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

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 from TSCA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health:	1	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:

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