



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: (928) 783-3803
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
For MEDICAL Emergency: (888) 478-0798

Product: BOTRAN® 75-W Fungicide
EPA Signal Word: Caution
Active Ingredient: Dicloran (75%)
Chemical Name: 2,6-dichloro-4-nitroaniline
Chemical Class: Chloronitrobenzene

EPA Registration No.: 10163-189
CAS No.: 99-30-9

2. HAZARDS IDENTIFICATION

Physical Properties

Appearance: Yellowish powder
Odor: Slight aniline smell

Symptoms of Acute Exposure

Causes slight eye irritation. Dust may be irritating to respiratory tract.

Medical Conditions Likely to be Aggravated by Exposure

Not known

Primary Routes of Exposure

Harmful if it comes in contact with skin or if its swallowed and inhaled.

Hazardous Decomposition Products

None known up to 100°C

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	OSHA – PEL	ACGIH – TLV	OTHER	NTP/IARC/OSHA CARCINOGEN
Dicloran (75%)	Not established	Not established	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 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.

- Ingestion:** Drink warm water and induce vomiting by touching back of the throat with finger and/or by administering syrup of ipecac. Follow with milk and a mild cathartic (Milk of Magnesia). Call a physician or Poison Control Center immediately. Never give fluids or induce vomiting if patient is unconscious or having convulsions.
- Inhalation:** Move victim from contaminated area to fresh air. Apply respiration if necessary. Seek medical advice.
- Eye Contact:** Immediately flush eyes with plenty of water. Get medical attention if irritation persists.
- Skin Contact:** Wash with soap and water.

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

5. FIRE FIGHTING MEASURES

- Flashpoint (test method):** Not applicable
- Flammable Limits (% in air):** Not applicable
- Autoignition Temperature:** Not available

Appropriate Extinguishing Media

Use water spray; Class A, B or C extinguisher.

Fire Fighting Guidance

Wear self-contained breathing apparatus (SCBA).

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

Keep unnecessary people away and isolate hazard area. Sweep up spill carefully, avoiding the formation of a dust cloud. Place material into a clean, dry container and cover for disposal. Wash contaminated areas with water and detergent. Inform authorities if material enters sewer or watercourse.

7. HANDLING AND STORAGE

CAUTION: May be harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Do not contaminate water, food or feed by storage or disposal. Store in the original container and keep closed. Store containers in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- | | |
|-------------------------------------|--|
| Eye/Face | Not required; use normal safety precautions. |
| Skin Protection | Rubber (synthetic or natural) gloves. |
| Respiratory Protection | Not required; use normal safety precautions. |
| Other/General Protection | Harmful if swallowed. Avoid contact with eyes and skin. Avoid inhalation of dust or spray mist. |
| Applicators/Handlers | Long-sleeved shirt and long pants, and shoes plus socks must be worn. |
| User Safety Recommendations: | Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing if pesticide gets inside. Then wash thoroughly and put on clean clothing. |

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellowish powder
Odor:	Slight aniline smell
Melting Point:	192-194°C
Boiling Point:	Not applicable
Specific Gravity/ Density:	Not applicable
Solubility in H₂O	
Dicloran	6.3 mg/L at 20° C
Vapor Pressure	
Dicloran	2.61 X 10 ⁻⁴ Pa @ 25° C

10. STABILITY AND REACTIVITY

Stability:	Stable under normal storage conditions for at least 36 months.
Hazardous Polymerization:	Will not occur
Decomposition Products:	None known for up to 100° C

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Laboratory testing has shown Dicloran to have no chronic effects.

Ingestion:	Acute Oral LD ₅₀ (rat):	>4,640 mg/kg body weight
Dermal:	Acute Dermal LD ₅₀ (rabbit):	>6,320 mg/kg body weight
Inhalation:	Acute Inhalation LC ₅₀ (rat):	>21.6 mg/L air – 1 hour
Eye Contact:	Slightly irritating	
Skin Contact:	Slightly irritating	

Carcinogenic Potential

None

12. ECOLOGICAL INFORMATION

Summary of Effects

Dicloran

Dicloran is toxic to fish. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply Botran 75-W Fungicide when weather conditions favor drift from areas treated. 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. 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

Completely empty bag into application equipment. Then dispose of empty bag 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): Dicloran

Proposition 65

Not applicable

CERCLA Reportable Quantity (RQ)

None

RCRA Classification

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, 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.

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
Flammability: 0
Reactivity: 0

0	Least
1	Slight
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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