



## MATERIAL SAFETY DATA SHEET

# Product: **BOTRAN® 6% Dust**

Product:

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®:  
For *MEDICAL* Emergency:

(928) 783-3803  
Inside the U.S.: (800) 424-9300  
Outside the U.S.: (703) 527-3887  
(888) 478-0798

### 1. CHEMICAL IDENTIFICATION

**Product:** BOTRAN 6% Dust  
**EPA Signal Word:** Warning  
**Active Ingredient:** Dicloran (6.0%)  
**Chemical Name:** 2,6-dichloro-4-nitroaniline  
**Chemical Class:** Chloronitrobenzene

**EPA Registration No.:** 10163-188  
**CAS No.:** 99-30-9

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	OSHA – PEL	ACGIH – TLV	OTHER	NTP/IARC/OSHA CARCINOGEN
Dicloran (6.0%)	None	None	Not established	No
Silica Quartz (0.7%) CAS# 14808-60-7	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	Not established	No
Calcium Carbonate (88.1%) CAS# 471-34-1	15 mg/m <sup>3</sup> (total dust)	10 mg/m <sup>3</sup> (total dust)	Not established	No

### 3. HAZARDS IDENTIFICATION

#### Physical Properties

**Appearance:** Yellow white powder  
**Odor:** Slight aniline smell

#### Symptoms of Acute Exposure

Dust may be irritating to respiratory tract. No systemic reaction has been noted in humans.

#### Medical Conditions Likely to be Aggravated by Exposure

None known

#### Primary Routes of Exposure

Harmful if it comes in contact with skin or if it's 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<sub>x</sub>) may develop if product is burned.

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## 4. FIRST AID MEASURES

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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. Get medical attention.

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

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## 5. FIRE FIGHTING MEASURES

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**Flashpoint (test method):** Not applicable

**Flammable Limits (% in air):** Not applicable

### 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<sub>x</sub>) may develop if product is burned. Dispersion of fine dust in air may form explosive mixture.

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## 6. ACCIDENTAL RELEASE MEASURES

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### In Case of Spills or Leaks

Keep unnecessary people away and isolate hazard area. Spread absorbent material over spill and sweep up. 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. Do not contaminate water, food or animal feed through inappropriate disposal.

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## 7. HANDLING AND STORAGE

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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.

### Precautions in Storing

Store in original container in a cool dry place and keep container closed. Do not reuse container. DO NOT contaminate water, food or animal feed through inappropriate storage.

### Storing

Store in the original container and keep closed. Store containers in a cool, dry place.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Engineering Controls

Use in well-ventilated areas.

### Personal Protection

**Eye/Face** Not required; use normal safety precautions.

**Skin Protection** Wear a long sleeved shirt and long pants, shoes plus socks, and waterproof gloves.

**Respiratory Protection** Not required; use normal safety precautions.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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### Additional Protection Information

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.

### User Safety Recommendations

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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance:</b>	Yellow-white powder
<b>Odor:</b>	Slight aniline smell
<b>Melting Point:</b>	192-194°C
<b>Boiling Point:</b>	Not available
<b>Specific Gravity/ Density:</b>	0.95 g/cc
<b>Solubility in H<sub>2</sub>O</b>	
<b>Dicloran</b>	6.3 mg/l at 20°C (technical)
<b>Vapor Pressure</b>	
<b>Dicloran</b>	1.96 x 10 <sup>-6</sup> Pa at 25°C (technical)

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## 10. STABILITY AND REACTIVITY

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

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## 11. TOXICOLOGICAL INFORMATION

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### Acute Toxicity/Irritation Studies

Laboratory testing has shown Dicloran to have no chronic effects.

<b>Ingestion:</b>	Acute Oral LD <sub>50</sub> (rat):	>5,000 mg/kg body weight
<b>Dermal:</b>	Acute Dermal LD <sub>50</sub> (rabbit):	>2,000 mg/kg body weight
<b>Inhalation:</b>	Acute Inhalation LC <sub>50</sub> (rat-male):	>2.13 mg/L air – 4 hour
	Acute Inhalation LC <sub>50</sub> (rat-female):	>3.24 mg/L air – 4 hour
<b>Eye Contact:</b>	Slightly irritating	
<b>Skin Contact:</b>	Slightly irritating	
<b>Skin Sensitizer:</b>	Mild sensitizer (Guinea pig)	

**Carcinogenic Potential**  
None

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## 12. ECOLOGICAL INFORMATION

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### Summary of Effects Dicloran

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 when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment wash waters.

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## 13. DISPOSAL CONSIDERATION

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### 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.

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## 14. TRANSPORT INFORMATION

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### DOT Classification

Not regulated

### International Maritime Organization

None

### International Civil Aviation Organization

None

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## 15. REGULATORY INFORMATION

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### 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.

### TSCA Status

Exempt from TSCA

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## 16. OTHER INFORMATION

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### 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:

Gowan Company  
(928) 783-8844

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