

### MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

Formulator: Gowan Company Emergency Phone: (928) 783-3803

P.O. Box 5569 For 24-Hour Emergency Yuma, Arizona 85366-5569 Assistance (Spill, Leak, Fire, or

(928) 783-8844 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 **EPA Registration No.:** 10163-189 **Active Ingredient:** Dicloran (75%) **CAS No.:** 99-30-9

**Chemical Name:** 2,6-dichloro-4-nitroaniline

Chemical Class: Chloronitrobenzene

# 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 (HCI) 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

Flammable Limits (% in air): Not applicable 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 (HCI) 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 H<sub>2</sub>0

**Dicloran** 6.3 mg/L at 20° C

**Vapor Pressure** 

**Dicloran** 2.61 X 10<sup>-4</sup> 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 weightDermal:Acute Dermal  $LD_{50}$  (rabbit):>6,320 mg/kg body weightInhalation: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 0 Least
Flammability: 0 1 Slight
Reactivity: 0 2 Moderate
3 High

3 High4 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

Botran® is a registered trademark of Gowan Company, LLC.

Product Name: Botran 75-W Page 4 of 4 Revision Date: 1/02/2007