

**FBSciences, Inc.**  
**153 N. Main, Ste. 100**  
**Collierville, TN 38017**

**In Case of Emergency, Call**  
**FBSciences, Inc.: 1-901-221-1200**  
**CHEMTREC: 1-800-424-9300**

**1. CHEMICAL IDENTIFICATION**

Product Name: **Carbon Defense** CAS No.: 1312-76-1  
 EPA Signal Word: Caution EPA Reg. No. 84846 - 1  
 Active Ingredient (%): PS 11.14%  
 Chemical Name: Potassium Silicate/Dipotassium Phosphate  
 Chemical Class: Fungicide/Miticide/Insecticide

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Material PEL	% by weight	ACGIH Other	OSHA TLV	NTP/IARC/OSHA Carcinogen
NA	11.14%	Not Listed	Not Listed	No

**3. HAZARDS IDENTIFICATION**
Notes to Physician

There is no specific antidote if this product is ingested.  
 Treat symptomatically.

Symptoms of Acute Exposure

Exposure may result in stinging, tearing, itching, swelling and/or redness of the eyes. May cause drying or be transiently irritating to the skin.

Hazardous Decomposition Products

None Known

Physical Properties

Appearance: Brown liquid  
 Odor: None

**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:** If victim is fully conscious, give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.

**Eye Contact:** Immediately rinse eyes with a large amount of running water. Hold eyelids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician. Get medical attention if irritation persists.

**Skin Contact:** Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use. Get medical attention if irritation persists.

**Inhalation:** Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

Notes to Physician:

There is no specific antidote if this product is ingested.  
 Treat symptomatically.

Medical Condition Likely to be Aggravated by Exposure

None Known

## 5. FIRE FIGHTING MEASURES

Flash Point & Method:	Not Applicable
Flammable Limits:	Not Applicable
Autoignition Temperature:	Not Available
Flammability:	Non Flammable

### Unusual Fire, Explosion and Reactivity Hazards

Not explosive.

### In Case of Fire

Use water, dry chemical, foam, or CO2 extinguishing media. Wear full protective clothing. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

## 6. ACCIDENTAL RELEASE MEASURES

### In Case of Spill or Leak

Use adequate ventilation and chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, and head covering. For small spills, cover with absorbent (clay, sawdust, straw, kitty litter, etc.) and sweep into an open drum, Close the drum and dispose of properly. For large spills dike the spill to prevent contamination of local water sources. Siphon the majority of the liquid into drums for use or disposal, depending on the circumstances. Clean area as described for a small spill.

## 7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Do not allow the product to freeze. Always wash thoroughly after handling.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingestion:	Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.
Eye Contact:	To avoid eye contact, wear safety glasses with side shields or chemical goggles.
Skin Contact:	To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.
Inhalation:	To avoid breathing vapor or spray mist, wear a properly fitted NIOSH/MSHA approved respirator fitted with organic vapor cartridges.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	>1.0 mm/HG @ 100°C
Density:	H2O=1 1.34-1.42 @ 20°C
Solubility in Water:	Soluble
Solubility in alcohols:	Misable in Alcohols
pH:	9 - 10
Freezing Point:	NA
Boiling Point:	NA
Odor:	None
Color:	Brown
Physical State:	Liquid

## 10. STABILITY AND REACTIVITY

### STABILITY AND REACTIVITY

General:	
Stability:	Stable under normal conditions.
Incompatible Materials:	None Known
Conditions to Avoid:	None Known
Hazardous Decomposition:	None Known
Hazardous Polymerization:	This product will not polymerize.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

Ingestion: Practically non-toxic  
Oral LD50(Rat): >5,000 mg/kg body weight

Dermal: Slightly toxic  
Dermal LD50 (Rabbit): >5,050 mg/kg body weight

Inhalation: Inhalation LC50 (Rat): >2.16 mg/l air - 4 hours

Eye Contact: Moderately irritating (Rabbit) Toxicity category IV

Skin Contact:: Minimally irritating (Rabbit) Toxicity category IV

Skin Sensitization:: Not a sensitizer (Guinea Pig)

### Mutagenic Potential

None Observed

### Reproductive Hazard Potential

None Observed

### Chronic/Subchronic Toxicity Studies

None Observed

### Carcinogenic Potential

None Observed

### Other Toxicity Information

Not Available

### Toxicity of Other Components

Not Available

Target Organs:

#### Active Ingredients

PS None Observed

#### Inert Ingredients

Not Available

## 12. ECOLOGICAL INFORMATION

### Summary of Effects

Keep out of all water supplies.

### Eco-Acute Toxicity

Not Available

### Eco-Chronic Toxicity

Not Available

### Environmental Fate

Not Available

## 13. DISPOSAL CONSIDERATION

### Disposal

#### Pesticide:

If wastes cannot be disposed of by using according to the label directions, they should be disposed of as a hazardous waste at a regulated disposal facility. Open dumping is prohibited.

#### Container disposal:

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

nearest State Pesticide or Environmental control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance.

#### 14. TRANSPORT INFORMATION

DOT Classification

Not Applicable; No Label or Placard Required

B/L Freight Classification

Not regulated

International Transportation

Not Applicable

HAZARD CLASSIFICATION (0-minimal, 1 -slight, 2-moderate, 3-serious, 4-severe)

NFPA: HEALTH- 0 FIRE- 0 REACTIVITY- 0

#### 15. REGULATORY INFORMATION

SARA Title III Classification

Section 311/312: Not Applicable

Section 313 chemicals: Not Applicable

Proposition 65

Not Applicable

CERCLA Reportable Quantity (RO)

None

RCRA Classification

Not Applicable

TSCA Status

Listed

#### 16. OTHER INFORMATION

The directions for use of this product are believed to be adequate and must be followed carefully. The use of this product is beyond the control of the manufacturer, and, therefore, to the extent consistent with applicable law, no warranty, representation, or guarantee of any kind, expressed or implied, is made as to the effects of such use or any results obtained if not used in accordance with printed directions and established safe practice or if unusual or extraordinary weather conditions occur. To the extent consistent with applicable law, the buyer's exclusive remedy and manufacturer's or seller's exclusive liability in tort or otherwise, shall be limited, at the manufacturer's option, to replacement of, or the repayment of the purchase price for, the quantity of product with respect to which damages are claimed.

The information and recommendations contained herein are based upon data believed to be correct. However there is no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

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