

# Material Safety Data Sheet

## Knox Fertilizer Company, Inc.

### SECTION 1

### PRODUCT IDENTIFICATION

**TRADE NAME:** **Shaw's® Turf Food Crabgrass Control Barricade® 20, 28, 38, 50**

**EPA REGISTRATION NO:** 8378-38, -39, -40, -56  
**CHEMICAL FAMILY:** Fertilizer with Herbicide  
**CHEMICAL NAME/SYNONYMS:** Barricade®, Prodiamine

**MANUFACTURER/FORMULATOR:** Knox Fertilizer Co., Inc  
P.O. Box 248  
Knox, IN 46534

**EMERGENCY PHONE:** 1.800.424.9300

### SECTION 2

### COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients	CAS No.	% by Weight	PEL/TLV
Prodiamine	29091-21-2	0.20 – 0.50	None Established
Inert Ingredients		99.80 – 99.50	

### SECTION 3

### HAZARDS IDENTIFICATION

#### CAUTION: KEEP OUT OF REACH OF CHILDREN

This product is a light yellow to brown-colored granule with slight aromatic odor. Primary routes of entry are inhalation, ingestion, eye contact and skin contact.

### SECTION 4

### FIRST AID MEASURES

**EYES:** Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

**SKIN:** 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.

**INGESTION:** 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**SECTION 5****FIRE FIGHTING MEASURES**

<b>FLASH POINT (Method):</b>	Not Applicable
<b>FLAMMABLE LIMITS (LEL &amp; UEL):</b>	Not Applicable
<b>EXTINGUISHING MEDIA:</b>	Considered non-combustible. Use medium appropriate to surrounding fire: Dry chemical, CO <sub>2</sub> , foam, water spray or fog.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	May include but are not limited to oxides of carbon, hydrogen chloride, hydrogen fluoride, oxides of nitrogen, oxides of phosphorus, oxides of sulfur, hydrogen sulfide.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	Dusts or vapors can travel to sources of ignition and flash back.

**SECTION 6****ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Avoid breathing dusts. Sweep up dry spills immediately and transfer to suitable containers for land application according to labeled use or for disposal. Check local, state and federal regulations for proper disposal.

**CAUTION:** Keep spills and cleaning run-off out of municipal sewer systems and open bodies of water.

**SECTION 7****HANDLING AND STORAGE**

**HANDLING:** Store in a cool dry place away from children, feed, food products, and seed.

**OTHER PRECAUTIONS:** Toxic to fish and other aquatic organisms. Do not contaminate water supplies by handling and storage of product. Drift or runoff may adversely affect aquatic invertebrates and non-target plants.

**SECTION 8****EXPOSURE CONTROL/PERSONAL PROTECTION**

<b>ENGINEERING CONTROLS:</b>	Not normally required.
<b>RESPIRATORY PROTECTION:</b>	Not normally required. If vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved pesticide respirator.
<b>EYE PROTECTION:</b>	Chemical goggles or shielded safety glasses.
<b>SKIN PROTECTION:</b>	Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or chemical-resistant gloves.
<b>WORKER HYGENIC PRACTICES:</b>	After using product, remove clothing and launder separately before reuse. Promptly and thoroughly wash hands and exposed skin with soap and water. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
<b>GENERAL COMMENTS:</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

**SECTION 9****PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:** Light yellow to brown-colored granules with slight aromatic odor.

**SPECIFIC GRAVITY:** Not Applicable

**VAPOR PRESSURE:** Not Applicable

**BOILING POINT:** Not Applicable

**PERCENT VOLATILE:** Not Applicable

**EVAPORATION RATE:** Not Applicable

**SOLUBILITY IN WATER:** Not Soluble

**VAPOR DENSITY:** Not Applicable

**MELTING POINT:** Not Applicable

**pH:** Not Applicable

**BULK DENSITY:** 45 – 65 lbs./cu ft.

**SECTION 10****STABILITY AND REACTIVITY**

**STABILITY:**

Stable

**CONDITIONS TO AVOID:**

Extremely high temperatures; ignition sources

**INCOMPATIBLE MATERIALS:**

Strong oxidizers or strong alkalies

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Oxides of nitrogen, carbon and sulfur

**HAZARDOUS POLYMERIZATION:**

Not known to occur.

**SECTION 11****TOXICOLOGICAL INFORMATION**

**ACUTE DERMAL LC<sub>50</sub>:** >5,000 mg/kg

**EYE EFFECTS:** May cause irritation

**INHALATION:** May cause respiratory tract irritation

**CARCINOGENIC POTENTIAL:** Not listed: OSHA, NTP, IARC, ACGIH

**ACUTE ORAL LD<sub>50</sub>:** >5,000 mg/kg

**SKIN EFFECTS:** May cause irritation

**INGESTION:** May cause stomach distress, nausea or vomiting

**SECTION 12****ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:** This product is toxic to fish and other aquatic organisms, including oysters and shrimp. Drift or runoff from treated turf may adversely affect aquatic organisms in adjacent aquatic sites. Do not apply to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from treated areas.

**SECTION 13****DISPOSAL CONSIDERATIONS**

**PRODUCT DISPOSAL:** Waste resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

**CONTAINER DISPOSAL:** Do not reuse bag. Completely empty bag into application equipment. Dispose of emptied bag(s) in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**SECTION 14****TRANSPORT INFORMATION**

**DOT SHIPPING DESCRIPTION:** Not regulated  
**U.S. SURFACE FREIGHT CLASSIFICATION:** Fertilizing compounds, NOI; Dry (NMFC 68140, Sub 5; Class 50)

**SECTION 15****REGULATORY INFORMATION****SARA TITLE III****SEC 311/312:**

Y Immediate (Acute Health)  
N Delayed (Chronic Health)  
N Fire  
N Sudden Release of Pressure  
Y Reactivity

**SEC 302:** Not Applicable  
**SEC 304:** Not Applicable  
**SEC 313:** Not Applicable  
**CERCLA RQ:** Not Applicable  
**CAA RQ:** Not Applicable

**National Fire Protection Association (NFPA) Ratings:**

Health: 1      Fire: 0      Reactivity: 0      Specific: none

**SECTION 16****OTHER INFORMATION**

**Issue Date:** 7 OCT 2005  
**Supersedes MSDS Dated:** 1 AUG 2001

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