

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**

FLASH POINT (Method):	Not Applicable
FLAMMABLE LIMITS (LEL & UEL):	Not Applicable
EXTINGUISHING MEDIA:	Considered non-combustible. Use medium appropriate to surrounding fire: Dry chemical, CO ₂ , foam, water spray or fog.
HAZARDOUS COMBUSTION PRODUCTS:	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.
SPECIAL FIRE FIGHTING PROCEDURES:	Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.
UNUSUAL FIRE & EXPLOSION HAZARDS:	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**

ENGINEERING CONTROLS:	Not normally required.
RESPIRATORY PROTECTION:	Not normally required. If vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved pesticide respirator.
EYE PROTECTION:	Chemical goggles or shielded safety glasses.
SKIN PROTECTION:	Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or chemical-resistant gloves.
WORKER HYGENIC PRACTICES:	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.
GENERAL COMMENTS:	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 LC₅₀: >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 LD₅₀: >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

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