

# Material Safety Data Sheet

## Knox Fertilizer Company, Inc.

### SECTION 1

### PRODUCT IDENTIFICATION

**TRADE NAME:** *Shaw's® Turf Food with Tupersan® 350*

**EPA REGISTRATION NO:** 8378-63  
**CHEMICAL FAMILY:** Fertilizer with Herbicide  
**CHEMICAL NAME/SYNONYMS:** Tupersan®, Siduron

**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
Tupersan® (Siduron)	1982-49-6	3.5	None Established
Inert Ingredients		96.5	

### SECTION 3

### HAZARDS IDENTIFICATION

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

This product is a light brown-colored granule with essentially no odor. Primary routes of entry are inhalation, ingestion, and skin contact.

### SECTION 4

### FIRST AID MEASURES

**EYES:** Flush eyes with plenty of clear water for 15 – 20 minutes.

**SKIN:** Wash with soap and water.

**INGESTION:** No specific intervention is indicated as the product is not likely to be hazardous by ingestion. Consult a physician for further treatment if necessary.

**INHALATION:** Move person to fresh air. If person is not breathing, artificial respiration. Give oxygen only with a physician's 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>	Wear self-contained breathing apparatus and full protective gear. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area of contamination. If water is used, dike fire control water for later disposal.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	None known

**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**

**STORING:** Store in a cool dry place away from children, domestic animals, feed, food products, and seed. Immediately clean up any spills which occur during storage.

**OTHER PRECAUTIONS:** Do not contaminate water supplies by handling and storage of product.

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

<b>ENGINEERING CONTROLS:</b>	Not normally required. Use with adequate ventilation.
<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, shoes with socks. Wear rubber or chemical-resistant gloves.
<b>WORKER HYGENIC PRACTICES:</b>	Remove clothing immediately if pesticide gets inside. Launder separately before reuse. 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 brown-colored granules with essentially no 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:** N/A

**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>:** >7,500 mg/kg

**SKIN EFFECTS:** Slight irritant

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

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

**ENVIRONMENTAL DATA:** This product is toxic to fish. 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
- N 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: 1      Reactivity: 0      Specific: none

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

**Issue Date:** 7 DEC 2005  
**Supersedes MSDS Dated:** 28 FEB 2002

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