

Material Safety Data Sheet

Knox Fertilizer Company, Inc.

SECTION 1

PRODUCT IDENTIFICATION

TRADE NAME: *Shaw's® Turf Food with Ronstar® 100, 150*

EPA REGISTRATION NO: 8378-61, -62
CHEMICAL FAMILY: Fertilizer with Herbicide
CHEMICAL NAME/SYNONYMS: Ronstar®, Oxadiazon

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
Ronstar (oxadiazon)	19666-30-9	1.00 – 1.50	None Established
Inert Ingredients		98.50 – 99.00	

SECTION 3

HAZARDS IDENTIFICATION

CAUTION: KEEP OUT OF REACH OF CHILDREN

Free flowing granules with slight amine, fish-like odor. Primary routes of entry are inhalation, ingestion, eye contact and skin contact.

SECTION 4

FIRST AID MEASURES

EYES: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

SKIN: In case of contact, immediately wash with plenty of soap and water for at least 15 minutes. Seek medical attention. Remove contaminated clothing and shoes while washing. Clean contaminated clothing and shoes before re-use or discard if they cannot be thoroughly cleaned.

INGESTION: If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting by touching back of throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended.

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.

NOTE TO PHYSICIAN: All treatment should be based on observed signs and symptoms of distress in the patient. Treat symptomatically. No specific antidote available.

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. Dike areas to prevent runoff and contamination of water sources. Dispose of dike control water later.

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. Do not contaminate water, food or feed by storage or disposal. Keep away from heat, sparks, open flame and other ignition sources.

OTHER PRECAUTIONS: Store at temperatures below 100° F.

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: Free flowing granules with slight amine, fish-like 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:

None known

INCOMPATIBLE MATERIALS:

Strong oxidizers or strong alkalis

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of nitrogen, carbon and sulfur

HAZARDOUS POLYMERIZATION:

Not known to occur.

SECTION 11**TOXICOLOGICAL INFORMATION**

ACUTE DERMAL LC₅₀: >2,000 mg/kg

EYE EFFECTS: Mildly irritating

INHALATION: May cause respiratory tract irritation

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

ACUTE ORAL LD₅₀: >5,000 mg/kg

SKIN EFFECTS: Moderately irritating

INGESTION: May cause stomach distress, nausea or vomiting

SECTION 12**ECOLOGICAL INFORMATION**

ENVIRONMENTAL DATA: No data available.

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

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

National Fire Protection Association (NFPA) Ratings:

Health: 2 **Fire:** 1 **Reactivity:** 0 **Specific:** none

SECTION 16**OTHER INFORMATION**

Issue Date: 30 NOV 2005
Supersedes MSDS Dated: 23 JAN 2002

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