

# Material Safety Data Sheet

## Knox Fertilizer Co., Inc.

**Trade Name:** Shaw's Annual Grass Control Balan<sup>®</sup> 250 Granules  
**EPA Registration No:** 8378-35

### SECTION 1

### CHEMICAL PRODUCT AND COMPANY INFORMATION

**Manufacturer or Formulator:** Knox Fertilizer Co., Inc  
P.O. Box 248  
Knox, IN 46534  
**Emergency Phone:** 1.800.424.9300

**Product Name:** Balan 2.5% Granules  
**Common Name:** Benefin  
**Chemical Type:** Herbicide

### SECTION 2

### COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients	CAS No.	% by Weight	TLV	PEL
		<b><u>Hazardous</u></b>		
Balan (benefin)	1861-40-1	2.5	N/Apl.	N/Avail.
		<b><u>Non-Hazardous</u></b>		
Inert Ingredients		97.5	N/Apl.	N/Avail.

### SECTION 3

### HAZARDS IDENTIFICATION

This product is a yellow - cream granule with mild aromatic odor. May cause eye irritation and/or corneal injury. May cause skin irritation. Toxic to aquatic organisms.

### SECTION 4

### FIRST AID MEASURES

**If swallowed:** Call 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.

**If in 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 eye. Call a poison control center or doctor for treatment advice.

**If on 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.

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

Have the product label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1.800.858.7378 for emergency medical treatment advice.

**SECTION 5****FIRE FIGHTING MEASURES****Flash Point (Method):**

N/Apl.

**Flammable Limits:****LEL:** N/Apl.**UEL:** N/Apl.**Extinguishing Media:**Considered non-combustible. Use medium appropriate to surrounding fire: CO<sub>2</sub>, water or dry chemicals.**Special Fire Fighting Procedures:**

Emits hazardous fumes when heated to decomposition. Wear full protective clothing and use self-contained breathing apparatus. Nonessential personnel should be restricted from area of intense smoke. Do not allow water run-off from fire site to enter nearby streams, ponds or lakes. Keep containers cool with water spray.

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

**Steps to be taken if Material is Released or Spilled:** 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. Keep spills and cleaning run-off out of municipal sewer systems and open bodies of water.

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

**Handling:** Keep out of reach of children. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing dust and contact with skin, eyes, or clothing.

**Storage:** Do not contaminate water, food or feed by storage or disposal. Store in a cool dry place. Store in original container.

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

**Ventilation Protection:** Local external ventilation should be used to control worker exposure to below and recommended Permissible Exposure Levels (PEL) for dust and respirable dust.

**Respiratory Protection:** In case of prolonged contact in enclosed spaces, wear a NIOSH approved dust respirator or a NIOSH approved air-purifying respirator.

**Skin Protection:** Wear protective rubber gloves when prolonged or frequently repeated contact could occur.

**Eye Protection:** Use chemical goggles.

**FOR APPLICATORS AND ALL OTHER HANDLERS:** Refer to the product label for personal protective clothing and equipment.

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

**Boiling Point:** Not applicable  
**Vapor Pressure:** Not applicable  
**Specific gravity:** Not applicable  
**Odor:** Mild aromatic

**Solubility in Water:** Not soluble in water  
**Vapor Density:** Not applicable  
**Appearance:** Yellow – Cream granule  
**pH:** (aqueous 50:50) 8.0 to 9.0

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

**Stability:** Stable under normal conditions  
 Conditions to Avoid: Avoid elevated temperatures  
**Incompatibility (Materials to avoid):** Strong oxidizers  
**Hazardous Decomposition Products:** Combustion may produce toxic fumes, such as nitrogen oxides, carbon monoxide and unidentified organic compounds.  
**Hazardous Polymerization:** Not known to occur.

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

**Mutagenicity:** For benfenin, in-vitro and animal mutagenicity studies were negative.

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

**Ecotoxicology:** Benfenin is toxic to aquatic organisms.

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

**Waste Disposal Procedures:** Do not reuse empty bag. Place bag in trash or offer for recycling if available. As a responsible environmental practice, where possible, it is recommended that all of the contents of the bag be used, carefully following label directions and precautions.

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

This product is not regulated by the US DOT as a hazardous material when shipped domestically by land.

**SECTION 15****REGULATORY INFORMATION**

**SARA 313 Information:** This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION</u>
Benfluralin	1861-40-1	2.5%

**SARA Hazard Category:** This product has been reviewed and according to the EPA "Hazards Categories" promulgated under Sections 311 and 312 of the the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions to meet the following categories:

An immediate health hazard  
 A delayed health hazard

**Toxic Substances Control Act (TSCA):** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**OSHA Hazard Communications Standard:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Comprehensive Environmental Response Compensation and Liability Act (CERCLA):** To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

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

Health: 2

Fire: 1

Reactivity: 1

Specific: none

**SECTION 16**

**OTHER INFORMATION**

**Reference:** P42001

**Issue Date:** 31 MAR 2005

**Supersedes MSDS Dated:** 1 AUG 2001

This information is taken from sources or based upon data believed to be reliable. However, Knox Fertilizer Co., Inc. makes no warranty as to the absolute correctness or sufficiency of any of the foregoing, or that additional or other measures may not be required under particular conditions. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED. It is the user's responsibility to satisfy him/herself as to the suitability and completeness of such information for his/her particular use. We do not accept liability for any loss or damage that may occur from the use of this information.