

MATERIAL SAFETY DATA SHEET

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Revision No: New MSDS

Banrot® 8G

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Banrot® 8G
PRODUCT DESCRIPTION: Broad Spectrum Fungicide

MANUFACTURER

The Scotts Company
Earthgro-Hyponex-Miracle Gro
Scotts-Scotts Sierra-Swiss Farms
14111 Scottslawn Road
Marysville, OH 43041

EPA REG. NO.: 58185-23B **PN:** 95024

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (U.S.): (800) 424-9300
International: 1-703-527-3887
Emergency Phone: 1-937-644-0011

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
5-Ethoxy-3-trichloromethyl-1,2,4-thiadiazole (Etridiazole)	2593-15-9	None	None
Dimethyl [(1,2-phenylene) bis (iminocarbonothioyl)] bis [carbamate] (Thiophanate-methyl)	23564-05-8	None	None

COMMENTS: The ACGIH Threshold Limit Values (TLV) for nuisance (inert) dusts containing < 1% crystalline silica and no asbestos are: 10 mg/m³ inhalable particulates and 3 mg/m³ respirable particulate. The OSHA TLV is 15 mg/m³ total dust, 5 mg/m³ respirable fraction. Product coating is expected to minimize airborne exposure.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS:

CAUTION: Harmful if swallowed.
Avoid contact with skin, eyes, or clothing.
May cause skin irritation.
Keep out of reach of children.

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: May cause skin irritation.

SKIN ABSORPTION: Absorption through intact skin may contribute to exposure.

INGESTION: Moderately toxic by ingestion. Ingestion of large amounts of product may cause throat irritation, nausea, and diarrhea.

INHALATION: Excessive inhalation of dust may cause irritation and coughing.

ACUTE TOXICITY: Prolonged or repeated skin contact may cause irritation and contact dermatitis (skin sensitization reactions) characterized by redness and pain. Nausea may develop in severe cases of inhalation overexposure.

CHRONIC: Excessive exposure to Etridiazole may cause liver damage.

MEDICAL CONDITIONS AGGRAVATED: Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to effects of the substance.

ROUTES OF ENTRY: Ingestion, skin, inhalation.

4. FIRST AID MEASURES

EYES: 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. Call a poison control center or doctor for treatment advice.

SKIN: If on skin or clothing, 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: If swallowed, 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 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 mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

COMMENTS: See product label for specific First Aid Measures. The above measures are the most conservative - Pesticide Registration (PR) Notice 2001-1, January 2, 2001, and apply in the event a product label is not immediately available.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, dry chemical.

FIRE FIGHTING PROCEDURES: Evacuate area. Flood with water. To fight large fires, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full-facepiece operated in the pressure/demand mode.

AUTOIGNITION TEMPERATURE: Not Applicable

FLASHPOINT: Not known.

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic chlorine and oxides of sulfur and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Ventilate area. Cleanup personnel require protective clothing and respiratory protection. Avoid dusting or misting condition during cleanup. If material is uncontaminated, collect and reuse as recommended for product. If contaminated, put in appropriate container and dispose according to local, state, or Federal regulations. Keep spills away from drinking water supplies. After spill cleanup, flush area with water.

7. HANDLING AND STORAGE

HANDLING: See label. Wash hands with soap and water after handling product. Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Do not contaminate water sources when disposing of equipment wash waters. Keep out of lakes, streams, or ponds. KEEP OUT OF REACH OF CHILDREN.

STORAGE: Read label. Do not store near seeds or fertilizer. Keep container closed when not in use. Do not contaminate water, food, or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use of chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible is recommended. Running water/eyewash station should be available in case material get in eyes.

SKIN: Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, shoes plus socks. See label for additional precautions and user safety recommendations.

RESPIRATORY: If airborne dust levels are high (i.e., visible airborne dust) or irritation occurs, use NIOSH/MSHA approved pesticide respirator (combination organic vapor cartridge and pesticide particulate pre-filter).

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Granular

COLOR: Grey

BOILING POINT: Decomposes on heating

SOLUBILITY IN WATER: 50 ppm AI @ 25C

DENSITY: 66 lbs/ft³

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Extreme heat. Contact with strong oxidizers, acids, and bases.

POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Strong oxidizers, acids, bases, and salt suspensions.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: Dermal LD50 (rabbit): 1370 mg Etridiazole/kg.

ORAL LD₅₀: Oral LD50 (rat): 1077 mg Etridiazole/kg; Oral LD50 (rat): 6640 mg Thiophanate-methyl/kg.

INHALATION LC₅₀: Inhalation LC50 (rat, 1 hr.) >200 mg Etridiazole/L air.

SENSITIZATION: Etridiazole is a dermal sensitizer.

TARGET ORGANS: Skin, eyes, respiratory tract, liver, and gastrointestinal tract.

CARCINOGENICITY:

IARC: No

NTP: No

OSHA: No

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This product is toxic to fish. Do not apply directly 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.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State, or local procedures. Do not contaminate water, feed, or food, by storage or disposal. Open dumping is prohibited.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not DOT regulated.

SPECIAL SHIPPING NOTES: The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE: NO PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: YES CHRONIC: YES

16. OTHER INFORMATION

REVISION SUMMARY New MSDS

NFPA CODES

HEALTH: 2 FIRE: 0 REACTIVITY: 1

HMIS CODES**HEALTH: *2 FLAMMABILITY: 0 PHYSICAL HAZARD: 1**

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the Manufacturer's (see Section 1) knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the Manufacturer shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, the Manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

ADDITIONAL MSDS INFORMATION: NFPA/HMIS Hazard Rating: 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe.

GENERAL STATEMENTS: This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

COMMENTS: Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved product label. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.