MATERIAL SAFETY DATA SHEET

DATE PREPARED:02/01/2005
MSDS No:046431026

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ORTHO® Bug-Geta® Snail & Slug Killer1

MANUFACTURER
The ORTHO Group
P.O. Box 190
Marysville, OH 43040

24 HR. EMERGENCY TELEPHONE NUMBERS
CHEMTREC (U.S.): (800) 424-9300
Emergency Phone: 1-800-225-2883

EPA REG. NO.: 71096-7-239 **PN:** S11211

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS#
Metaldehyde	3.25	108-62-3
Other Ingredients	96.75	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: CAUTION: Harmful if swallowed. Avoid breathing dust. Avoid contact with eyes, skin or clothing. Wear Chemical resistant gloves made of waterproof material when applying this product. Wash hands with soap and water after handling and before eating and smoking. This pesticide may be fatal to dogs or other pets if eaten. Dogs may be attracted to this bait. Confine pets during application to prevent them from believing they are being fed. Keep pets out of treated area when bait is present.

POTENTIAL HEALTH EFFECTS

EYES: This substance is slightly irritating to the eyes. Eye contact may include discomfort, tearing, redness, swelling, and blurred vision. See Toxicological Information, Section 11.

SKIN: This substance is not expected to cause prolonged or significant skin irritation. See Toxicological Information, Section 11.

INGESTION: Signs and symptoms may be delayed several hours following ingestion. These vary with dose taken and may include, but may not be limited to salivation, elevated body temperature, mental confusion, facial muscle cramps, loss of consciousness, convulsions and coma. Death is due to cyanosis and respiratory failure. Nonfatal poisoning can result in kidney and liver liver damage and memory loss. Recovery can take several weeks. See Toxicological Information, Section 11.

INHALATION: This product is expected to have a low degree of inhalation toxicity. Overexposure to the product dust may be irritating to the respiratory tract. See Toxicological Information, Section 11.

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

COMMENTS: Metaldehyde may be fatal to dogs or other pets if eaten. Keep pets out of treated area when bait is present. Read product label for proper application and pet protection.

4. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. 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 to 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 glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Never 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.

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 would apply in the event a product label is not immediately available.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Applicable

EXTINGUISHING MEDIA: CO2, Dry Chemical, Foam, Water Fog.

HAZARDOUS COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide and water vapor. Incomplete combustion can produce metaldehyde vapor, formic acid and carbon monoxide.

FIRE FIGHTING PROCEDURES: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Keep containers cool with a water spray. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Sweep up material and use according to label instructions or dispose of in the trash.

LARGE SPILL: Clean up spills immediately, observing precautions in Exposure Controls/ Personal Protection section. Vacuum with machines equipped with high efficiency filters or sweep up material and place in a disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with Oil Dry, cat litter, clay, rags or other absorbent and place in a disposable container. Dispose of in accordance with instructions in Section 13. "DISPOSAL".

GENERAL PROCEDURES: Observe all protection and safety precautions when cleaning up spills -- see Section 8. "EXPOSURE CONTROLS/PERSONAL PROTECTION".

7. HANDLING AND STORAGE

HANDLING: READ AND OBSERVE ALL PRECAUTIONS AND INSTRUCTIONS ON THE LABEL. Take precautions to avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mist. Mechanical ventilation should be used when handling product in enclosed spaces. Respirator protection not normally required when handling product as directed, but is recommended in the absence of proper ventilation.

STORAGE: Read and observe label storage recommendations. Store in original labeled container in a cool, dry, locked place out of reach of childern. Keep container tightly closed. Do not store in direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation is required when this material is used according to the label directions.

PERSONAL PROTECTION

EYES AND FACE: For application of product in accordance with label instructions, no special eye protection is needed. Handling of the product is not likely to present an eye exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which could cause eye contact, workers should wear goggles or a face shield.

SKIN: Avoid contact with skin or clothing. In the workplace, skin contact should be minimized by wearing protective clothing including chemical resistant gloves.

RESPIRATORY: No special respiratory protection is normally required. However, if operating conditions create high airborne concentrations, the use of an approved respirator is recommended.

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

	EXPOSURE LIMITS		
Chemical Name	**OSHA PEL**	**ACGIH TLV**	**ACGIH STEL**
Metaldehyde	None	None	None

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid
ODOR: Mild aldehyde.
APPEARANCE: Blue, Green, or Brown pellets.
MELTING POINT: 246°C
DENSITY: 42.0 lbs/cu.ft.

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Avoid contact with acids.

HAZARDOUS DECOMPOSITION: This material decomposes to acetaldehyde in the presence of acids.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: Rabbit: slight conjunctival redness observed after treatment, with all eyes normal at 72 hours. EPA FIFRA toxicity category - III.

DERMAL LD_{50}: Rabbit: > 5000 mg/kg. EPA FIFRA toxicity category - III. SKIN IRRITATION: Rabbit: None observed. EPA FIFRA toxicity category -IV.

ORAL LD_{50}: Rats: male = 5444 mg/kg, female = 3932 mg/kg. EPA FIFRA toxicity category -III.

INHALATION LC_{50}: No inhalation LC50 product information available.

SENSITIZATION: No product data available.

COMMENTS: The acute toxicology information is based on a comparable 3.25% metaldehyde formulation (ORTHO Bug-Geta Snail & Slug Pellets), The ORTHO Group, Marysville, OH, MSDS 1468, Issue Date: 2/3/1999.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This material may be toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water.

GENERAL COMMENTS: Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not clean equipment or dispose of equipment wash waters in a manner that will contaminate water resources.

13. DISPOSAL CONSIDERATIONS

FOR LARGE SPILLS: Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state, or local procedures.

PRODUCT DISPOSAL: Refer to product label for proper disposal. Do not reuse container. Place empty container in trash (recycle where available). Contact local waste disposal service for disposal of partially full container or 1-800-CLEANUP. Never pour product down any drain.

EMPTY CONTAINER: Do not reuse empty container. Discard container in trash.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
PROPER SHIPPING NAME: Not 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

GENERAL COMMENTS: Contact local authorities for disposal of large quantities of unused product.

16. OTHER INFORMATION

NFPA CODES
FIRE: 1 **HEALTH:** 1 **REACTIVITY:** 0

APPROVAL DATE: 02/01/2005

REVISION SUMMARY New MSDS

ADDITIONAL MSDS INFORMATION: NFPA 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.

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the Manufacturer's 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.