



# MATERIAL SAFETY DATA SHEET

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Revision Number: 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** ORTHO® Home Defense® MAX Insect Killer Granules  
**Description:** Insecticide

**Company**  
 The Scotts Company  
 14111 Scottslawn Road  
 Marysville, OH 43041

**24-HOUR EMERGENCY TELEPHONE NUMBERS:**  
 CHEMTREC (U.S.): 1-800-424-9300  
 CHEMTREC (International): 1-703-527-3887  
 Non-Emergency Calls: 1-937-644-0011

**EPA Registration No.:** 279-3240-239  
**Formula No.:** S12000

## 2. HAZARDS IDENTIFICATION

### Labelling

**Signal word:** CAUTION.

### Precautionary Statement

Harmful if absorbed through the skin. Avoid contact with eyes, skin, and clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Keep out of reach of children.

### Potential health effects

**Eye contact:** Contact with eyes may cause irritation.

**Skin contact:** Irritation not expected.

**Ingestion:** Slightly toxic. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**Inhalation:** Considered practically nontoxic. May cause irritation of respiratory tract.

**Aggravated Medical Conditions:** Inhalation may aggravate asthma.

**Principle routes of exposure:** Skin, Eyes, Inhalation

**Target organ effects:** Irritation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
Bifenthrin	82657-04-3	0.115
Inert Ingredients	PROPRIETARY	99.885

## 4. FIRST AID MEASURES

**Eye contact:** Hold eye open and rins 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

**Skin contact:** 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:** 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 do so by a 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 by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice

**Notes to physician:** This product is a pyrethroid. If large amounts have been ingested, milk, cream, and other digestible fats and oils may increase absorption and should be avoided.

## 5. FIRE-FIGHTING MEASURES

**Flammable properties:** May burn under fire conditions.

**Suitable extinguishing media:** Water spray, carbon dioxide, dry chemical, chemical foam.

**Explosion potential:** Dust at sufficient concentrations may form explosive mixtures with air.

**Hazardous combustion products:** Toxic fumes may be produced.

**Fire fighting procedures:** Select appropriate method to surround and extinguish fire. Contain run-off as ingredients may be toxic to aquatic organisms.  
**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Wear personal protective equipment  
**Environmental precautions:** Prevent product from entering drains  
**Methods for containment:** Clean up promptly by sweeping or vacuum.  
**Methods for cleaning up:** Detergent and water

**7. HANDLING AND STORAGE**

**Handling:** Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Keep out of lakes, streams or ponds.

**Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from heat or open flame.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Components	ACGIH:	OSHA:
Bifenthrin	Not Listed	Not Listed

**Engineering controls** Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard

**Personal Protective Equipment**

**Eye/face protection:** Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur. Safety glasses with side shields or goggles.  
**Skin and body protection:** Wear suitable protective clothing if contact is anticipated during manufacturing. Chemical resistant gloves.  
**Respiratory protection:** If airborne levels are high or product does not remain intact, use a combination of engineering controls (e.g. ventilation) and personal protection (e.g. NIOSH/MSHA approved respirator for dusts, mists, and fumes).

**General hygiene considerations:** Wash hands before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b> Solid	<b>Appearance:</b> Granular
<b>Color:</b> Tan	<b>Odor:</b> musty
<b>Solubility:</b> Negligible	<b>Density:</b> 1.39 g/cc
<b>Flash point:</b> Not applicable	

**10. STABILITY AND REACTIVITY**

**Chemically Stable:** Yes  
**Conditions to avoid:** Damp or wet conditions. Extreme heat.  
**Materials to avoid:** None known.  
**Hazardous decomposition products:** Toxic fumes and gases may be generated.  
**Possibility of hazardous reactions:** Poses little or no immediate hazard.

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

**LD50 Oral:** >5.0 g/kg, rat  
**LD50 Dermal:** >2.0 g/kg, rat  
**Eye effects:** Not irritating, rabbit  
**Skin effects:** Non-irritating to the skin, rabbit  
**Sensitization:** No information available

**Chronic toxicity**

Components	NTP:	IARC:	OSHA:
Bifenthrin	Not listed	Not listed	Not listed

**Ingestion:** Ingestion may cause irritation to mucous membranes.  
**Inhalation:** May cause irritation of respiratory tract.  
**Target organ effects:** Irritation.  
**Other information:** May produce temporary skin sensations such as numbness, burning, or tingling that subside within 12 hours.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity effects:** Toxic to aquatic organisms.  
**Persistence and degradability:** Inherently biodegradable.  
**Bioaccumulative potential:** No information available.  
**Mobility:** Water contaminating.  
**Aquatic toxicity:** Toxic to fish and other water organisms.  
**Additional ecological information:** Do not contaminate water sources when disposing of equipment washwaters. Do not apply directly to lakes, streams, or ponds.

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods:** If partially filled, call the local solid waste agency or 1-800-CLEANUP for disposal instructions. Do not place product down any indoor or outdoor drain.  
**Contaminated packaging:** If empty, place in trash or offer for recycling if available. Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

**DOT**  
**Proper shipping name:** Not regulated

**15. REGULATORY INFORMATION**

Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Bifenthrin	82657-04-3	Not Listed	Not Listed

**General Information** Contact local authorities for disposal of large quantities of product

**16. OTHER INFORMATION**

**NFPA:** Health: 1 Flammability: 0 Reactivity: 0  
**HMIS:** Health: 1 Flammability: 0 Reactivity: 0

**Hazard Rating:** 0=Least; 1-Slight; 2=Moderate; 3=High; 4=Severe

**EPA FIFRA Comment:** 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.

**General comment:** 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.

**Revision date:** 27-May-2005

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