

# Material Safety Data Sheet (MSDS)

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Product Trade Name: Green Dragon Roach Original Formula  
Use: Bait for control of cockroaches  
Composition: Orthoboric acid and food and feed-grade ingredients.

Common Name: paste insect bait with boric acid  
EPA Est. No.: 084708-GA-001 EPA Reg. No.: 84708-1

## 1. HAZARDOUS INGREDIENTS

Material: Orthoboric acid (boric acid) – ca. 40% CAS# 10045-35-3

## 2. PHYSICAL PROPERTIES

Product Appearance: White or off-white putty.  
Odor: May be mildly grainy or savory  
Solubility: N/A  
pH: Ca. 5.1 in 0.1M aqueous solution  
% Volatiles by volume @ 21°C (70 °F): ca. 0%

Density: N/A  
Vapor Density (Air = 1): N/A  
Vapor Pressure (mm Hg): N/A  
Water Reactivity: N/A  
Evaporation Rate (BuAc = 1): No information found  
Viscosity: >20,000 cp

## 3. FIRE AND EXPLOSION HAZARD DATA

Flash Point: ca. 193 °C (ca. 379 °F) Flammable Limit: N/A Auto Ignition Temp.: ca. 400 °C (ca. 752 °F)  
Extinguishing Media: Use agent most appropriate for extinguishing surrounding fire.  
Special Instructions: Use fire-fighting steps appropriate for surrounding materials. Cool fire-exposed containers with water spray. Vapors may be heavier than air. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.  
Unusual Fire and Explosion Hazard: The fire and explosion hazards are considered minor. Boric acid is a flame-retardant.

## 4. HEALTH HAZARD DATA

**Potential Health Effects:** Hazard is considered low or even practically non-toxic for usual industrial handling.  
**Eye:** May irritate eye. **Skin:** May irritate skin. **Ingestion:** Large amounts may irritate gastrointestinal tract or cause headache.  
**Inhalation:** Inhaling a mist of this material may irritate respiratory tract **Primary Route(s) of Entry:** Ingestion.  
**Chronic:** Ingesting very large quantities of boric acid may cause weight loss, vomiting, diarrhea, skin rash, convulsions and anemia, and may damage the liver and kidneys. Studies of dogs and rats have shown infertility and damage to testes can result from acute or chronic ingestion of boric acid. Evidence of toxic effects on the human reproductive system is inadequate.  
**Signs and Symptoms of Over-Exposure:** Intentional consumption of 1 to 2 oz. (ca. 28 to 56 g) could cause gastro-intestinal symptoms.  
**Emergency and First Aid Procedures:** In the event of a medical emergency call a poison control center or doctor immediately for treatment advice.  
**If Swallowed:** Person should sip water if able to swallow. Do not induce vomiting unless directed by medical professional. Never give anything by mouth to an unconscious person.  
**If in Eye:** Hold eye open, rinse gently with water 15-20 minutes. After first 5 minutes remove contact lens if present; continue rinsing eye.  
**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

## 5. PERSONAL PROTECTION

For pesticial application: Respirator Type: Not required. Ventilation: Not required. Eye Protection: Not required.  
Gloves: Recommended. Other Protective: Not required.

## 6. STABILITY AND REACTIVITY

**Stability:** Stable in ordinary conditions of use and storage. Boric acid can be corrosive to iron if moisture is present. **Conditions to Avoid:** Excess heat.  
**Hazardous Decomposition Products:** None. **Hazardous Polymerization:** Will not occur. **Incompatibilities (Materials to Avoid):** Strong alkali.

## 7. DISPOSAL AND RELEASE PROCEDURES

**In the Event of a Spill or Leak:** Scoop and wipe up, and dispose of in suitable container for reclamation or disposal, using a method that does not generate dust. Wear appropriate personal protective equipment as specified in Section 5.  
**Disposal:** Waste may be disposed of on site or at an approved disposal facility. Follow requirements of the relevant Federal, State and Local laws.

## 8. HANDLING AND STORAGE

**Storage Temperature:** Room temperature or cooler. **Average Shelf Life:** Two years in original container.  
**Special Sensitivity (Heat, Light, Moisture):** Avoid prolonged exposure to excessive heat.  
**Special Precautions:** Store in sealed original container out of reach of children, pets or wildlife. Use good housekeeping practices to avoid accumulating dust and airborne particles. Wash hands after handling. Avoid ingestion and inhalation; avoid contact with eyes, clothing, and especially cut or abraded skin. For empty containers that retain dust or solids from product, observe all warnings and precautions for product.

## 9. TRANSPORTATION INFORMATION

Not regulated DOT Shipping Name: None required. DOT Hazard Classification: Non-Hazardous.  
DOT Labels Required: None Required. Freight Classification: LTL Class 60.

Warranty Information: The information in this Material Safety Data Sheet is believed to be reliable but is provided only for your consideration and investigation. Green Dragon Pest Solutions Inc. (GDPS) assumes no responsibility for the accuracy or completeness of data contained herein, or for damages from use of or reliance on this information. GDPS provides no warranties, express or implied. Each user is responsible to ensure that they have all information relevant to their particular use.