



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

Formulator: Gowan Company  
P.O. Box 5569  
Yuma, Arizona 85366-5569  
(928) 783-8844

Emergency Phone: (928) 783-3803

For 24-Hour Emergency  
Assistance (Spill, Leak, Fire, or  
Exposure), Call CHEMTREC®:

Inside the U.S.: (800) 424-9300  
Outside the U.S.: (703) 527-3887  
(888) 478-0798

For *MEDICAL* Emergency:

Product: **AMBUSH 0.5% BAIT**

EPA Signal Word: Caution

EPA Registration No.: 10163-224

Active Ingredient: Permethrin (0.5%)

CAS No.: 52645-53-1

Chemical Name: (3-phenoxyphenyl) methyl(±)-cis, trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate

Chemical Class: Pyrethroid

### 2. HAZARDS IDENTIFICATION

#### Physical Properties

Appearance: Brown cereal-like flakes

Odor: Odorless

#### Symptoms of Acute Exposure

No toxicity information is available on this specific preparation. This health hazard assessment is based on information that is available on the properties of its components.

#### Medical Conditions Likely to be Aggravated by Exposure

None known

#### Primary Routes of Exposure

Harmful if it comes into contact with eyes or skin.

#### Hazardous Decomposition Products

Combustion products include carbon dioxide, carbon monoxide, sulfur oxides, halogen, halogen acids, and possible trace amounts of carbonyl halide

#### Unusual Fire, Explosion, and Reactivity Hazards

None known

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	OSHA – PEL	ACGIH – TLV	OTHER	NTP/IARC/OSHA CARCINOGEN
Permethrin (0.5%)	Not listed	10mg/m <sup>3</sup> *	Not established	No
Amyl Acetate CAS# 628-63-7	100 ppm	100 ppm	Not established	No

\*No ACGIH TLV or OSHA PEL is assigned to this mixture. Our supplier has established an employee exposure standard of 10 mg/ m<sup>3</sup> 8-hour TWA for Permethrin.

---

## 4. FIRST AID MEASURES

---

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

**IF IN EYES:** Flush with plenty of water for 15 minutes. Get medical attention if irritation persists.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE: (888) 478-0798**

---

## 5. FIRE FIGHTING MEASURES

---

**Flashpoint (test method):** Not applicable  
**Flammable Limits (% in air):** Not applicable  
**Autoignition Temperature:** Not available  
**Flammability:** Not flammable

### Appropriate Extinguishing Media

Use water fog, alcohol foam, carbon dioxide, dry chemical, halogenated agents.

### Fire Fighting Guidance

Wear self-contained breathing apparatus (SCBA) and protective clothing.

### Unusual Fire, Explosion, and Reactivity Hazards

None known

---

## 6. ACCIDENTAL RELEASE MEASURES

---

### In Case of Spills or Leaks

Wear eye and respiratory protection during cleanup. Keep out of sewers and drains. Sweep up and recover or mix material with moist absorbent and shovel into waste container.

---

## 7. HANDLING AND STORAGE

---

### Precautions in handling and storing

Mix as needed. Do not store diluted material. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, sweep up and remove to chemical waste area. Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### Engineering Controls

This product is intended for use outdoors where engineering controls are not necessary. If use conditions are different (e.g. product formulation or packaging), use ventilation adequate to maintain safe levels.

### Personal Protection

**Eye/Face** Eye contact with the material should be avoided through the use of protective eyewear.

**Skin Protection** Skin contact should be prevented through the use of long-sleeved shirt and long pants, waterproof gloves, shoes plus socks. When mixing, loading or cleaning equipment wear a chemical-resistant apron. Remove contaminated clothing and wash before re-wearing. Wash separately from other laundry.

**Respiratory Protection** Not required; use normal safety precautions.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

---

**Other/General Protection** An adequate supply of clean potable water should be available to allow thorough flushing of skin and eyes in event of contact with this compound. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety**

**Recommendations:**

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

**Appearance:** Brown cereal-like flakes

**Odor:** Odorless

**Melting Point:** 34-35°C (technical)

**Boiling Point:** Not applicable

**Specific Gravity/**

**Density:** Not applicable

**pH:** 7.5 (at 5% v/v in water)

**Solubility in H<sub>2</sub>O**

Permethrin (0.5%) 0.2 mg/L at 20°C (technical)

**Vapor Pressure**

Permethrin (0.5%) 0.045 mPa at 25°C

---

## 10. STABILITY AND REACTIVITY

---

**Stability:** Stable under normal conditions

**Hazardous**

**Polymerization:** Will not occur

**Decomposition**

**Products:** Combustion products include carbon dioxide, carbon monoxide, sulfur oxides, halogen, halogen acids, and possible trace amounts of carbonyl halide

**Hazardous**

**Mixtures:** Combustion products: carbon dioxide, carbon monoxide, sulfur monoxide, sulfur oxides, halogen, halogen acids, possible trace amounts of carbonyl halide

**Conditions**

**To Avoid:** Oxidizing agents

---

## 11. TOXICOLOGICAL INFORMATION

---

**Acute Toxicity/Irritation Studies**

**Ingestion:** Acute Oral LD<sub>50</sub> (rat): >5,000 mg/kg body weight  
This material is classified as "practically nontoxic" by ingestion.

**Dermal:** Dermal LD<sub>50</sub> (rabbit): 2,000 mg/kg body weight

**Inhalation:** No toxic effects are known to be associated with inhalation of dust from this material.

**Eye Contact:** No other adverse clinical effects have been associated with exposures to this material.

**Skin Contact:** No irritation is likely to develop following contact with human skin. Skin exposures may cause a skin condition called paresthesia, which is usually described as tingling, itching, burning, prickling, glowing, flushing, numbness or a chapped feeling. Symptoms usually occur around the face (mouth and eyes) but may involve the arms or hands. Symptoms may develop shortly after exposure or can be delayed up to four hours and can persist between 2 and 30 hours following contact. There is no evidence of any long-term or cumulative effects on the skin. The effect may result from transferring the material to the face from contaminated gloves and hands.

**Carcinogenic Potential**

None

---

## 12. ECOLOGICAL INFORMATION

---

### Summary of Effects

#### Permethrin (0.5%)

This product is extremely toxic to fish and aquatic invertebrates. 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 apply when weather conditions favor drift from treated areas. May be hazardous to aquatic organisms in neighboring areas. Do not apply this product or contaminate water when disposing of equipment wash waters.

### Other Environmental Information Use Precautions

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

---

## 13. DISPOSAL CONSIDERATION

---

### Pesticide Disposal

This material is extremely toxic to fish and aquatic invertebrates. Do not contaminate waterways, lakes, streams, ponds, etc. by cleaning of equipment or by disposal of waste. Dispose of waste on site or at an approved waste disposal facility. Open dumping is prohibited. Discarded product is not a hazardous waste under RCRA, 40 CFR 261. For information concerning the proper disposal of pesticide-related wastes, contact your State Environmental Department, State Department of Agriculture, or the Regional Office of the Environmental Protection Agency for your area.

### Container Disposal

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

---

## 14. TRANSPORT INFORMATION

---

### DOT Classification

Not regulated

### International Maritime Organization

Not regulated

### International Civil Aviation Organization

Not regulated

---

## 15. REGULATORY INFORMATION

---

### SARA Title III Classification

Section 302/304:	Not applicable
Section 311/312:	Immediate (acute) health hazard
Section 313 chemical(s):	Permethrin

### Proposition 65

Not applicable

### CERCLA Reportable Quantity (RQ)

None

### RCRA Classification

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

### TSCA Status

Exempt from TSCA

---

## 16. OTHER INFORMATION

---

### NFPA Hazard Ratings

**Health:** 1  
**Flammability:** 0  
**Reactivity:** 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

**Notice:** The information and recommendations contained herein are provided in good faith and are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information herein.

### Prepared By:

Gowan Company  
(928) 783-8844

Ambush® is a registered trademark of Zeneca, Inc.