

**1. IDENTIFICATION**

Product name: **Tailgunner™**  
 Chemical name of active ingredient(s): Bifenthrin: 2 methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-cyclopropanecarboxylate  
 Manufacturer: Makhteshim Agan of North America, Inc.  
 3120 Highwoods Boulevard, Suite 100  
 Raleigh, NC 27604  
 Phone: 1-919-256-9300  
 Phone: 1-800-535-5053  
 For fire, spill, and/or leak emergencies, contact Infotrac: Phone: 1-877-250-9291  
 For medical emergencies and health and safety inquiries, contact Prosar:

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

COMMON NAME	CAS NO.	%	OSHA/PEL	ACIGH/TLV	OTHER	NTP/IARC/OSHA (Carcinogenicity)
Bifenthrin	82657-04-3	22.6	NA	NA	NA	NA

NA=Not available

**3. HAZARDS IDENTIFICATIONS**

**PHYSICAL PROPERTIES:**

Appearance: Beige liquid

Odor: Faint organic

**EMERGENCY OVERVIEW** Warning. May be fatal if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes, and gloves. Remove and wash contaminated clothing before reuse.

**POTENTIAL HEALTH EFFECTS:**

**Ingestion:** May be fatal if swallowed.

**Eye:** Causes eye irritation.

**Skin:** Harmful if absorbed through the skin. Causes moderate skin irritation.

**Inhalation:** Harmful if inhaled; avoid breathing vapor or spray mist.

**SYMPTOMS OF ACUTE EXPOSURE:** Large doses may cause incoordination, tremor, salivation, vomiting, diarrhea and irritability to sound and touch.

**4.FIRST AID MEASURES**

FIRST AID	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not give anything by mouth to an unconscious person</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

<b>IF INHALED:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice</li></ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact PROSAR at 1-877-250-9291 for emergency medical treatment information.	
<b>NOTE TO PHYSICIAN:</b> This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and should be avoided.	

## 5. FIRE FIGHTING MEASURES

**FLASH POINT:** Not applicable.

**FLAMMABLE LIMITS:** LFL/UFL: Not applicable.

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, dry chemical

**FIRE & EXPLOSION HAZARDS:** Will not burn but may decompose upon heating to produce toxic fumes.

**FIRE-FIGHTING PROCEDURES:** Isolate fire area. Do not breathe smoke, gases or vapors generated.

**FIRE-FIGHTING EQUIPMENT:** Wear self-contained breathing apparatus and full-protective clothing.

**HAZARDOUS DECOMPOSITION PRODUCTS:** When heated it may decompose to emit toxic fumes.

## 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO TAKE FOR SPILLS/LEAKS:** Clean up spills immediately, using precautions described in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Keep material out of lakes, streams, ponds and sewer drains. To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay; if dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Do not allow material to run off into soil, drainage systems, or bodies of water. Notify and consult with proper regulatory authorities.

## 7. HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING:** Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

**PRECAUTIONS TO BE TAKEN IN STORAGE:** Do not allow product to freeze. Do not store below 40°F (4°C). If crystals are observed, warm material to above 60°F (16°C) by placing container in warm location. Shake or roll periodically to redissolve solids. Keep out of reach of children and animals. Store in original container only. Store in cool, dry place and avoid excessive heat. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

**STORAGE TEMPERATURE (MIN/MAX):** Do not store below 40°F (4°C)

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

**EYE PROTECTION:** Protective eyewear.

**SKIN PROTECTION:** Long-sleeved shirt and long pants. Shoes plus socks.

**HAND PROTECTION:** Chemical-resistant gloves, such as barrier laminate, nitrile rubber, neoprene rubber, or Viton.

**RESPIRATOR REQUIREMENTS:** Not required – Use normal safety precautions.

**ADDITIONAL PROTECTIVE MEASURES:** Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, 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.

**EXPOSURE GUIDELINES:** Refer to Section 2.

**ENGINEERING CONTROLS:** Use adequate ventilation to minimize airborne concentrations of this material.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Beige liquid

**ODOR:** Faint organic

**pH:** 5.55

**DENSITY:** 1.067 g/cc @22°C

**OXIDIZING OR REDUCING ACTIVITY:** Compatible with water, 5% ammonium phosphate, iron powder and gasoline. Incompatible with 4% potassium permanganate.

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable under normal use and storage conditions.

**CONDITIONS TO AVOID:** Excessive heat and fire.

**POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY/IRRITATION STUDIES**

- Acute Oral LD50 (Rat): > 50 mg/kg
- Acute Dermal LD50 (Rabbit): > 2,020 mg/kg
- Acute Inhalation LC50 (Rat): > 2.18 mg/L (4 hrs.)
- Eye Irritation (Rabbit): Mildly irritating
- Skin Irritation (Rabbit): Slightly irritating
- Dermal Sensitization (Guinea Pig): Not a contact sensitizer

**MUTAGENIC POTENTIAL:**

Bifenthrin: None observed.

**TERATOGENIC EFFECTS:**

Bifenthrin: None observed.

**12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL HAZARDS:** This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. 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 make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters. 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 while bees are actively visiting the treatment area.

**ECOTOXICOLOGY:** Bifenthrin is very highly toxic to fish, crustaceans and aquatic animals. Care should be taken to avoid contamination of the aquatic environment. LC<sub>50</sub>: 0.00015 mg/L (rainbow trout), 0.00035 mg/L (bluegill), 0.0016 mg/L (daphnia).

