

**1. IDENTIFICATION**

Product name: **Quali-Pro® Bifenthrin Golf & Nursery 7.9F**  
 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/Registrant: Makhteshim Agan of North America, Inc.  
 4515 Falls of Neuse Road, Suite 300  
 Raleigh, NC 27609  
 Phone: 919-256-9300  
 For fire, spill, and/or leak emergencies, contact Infotrac: Phone: 1-800-535-5053  
 For medical emergencies and health and safety inquiries, contact Prozar: Phone: 1-877-250-9291

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Bifenthrin	82657-04-3	7.9	NA	NA	NA	NA
NA=Not available.						

**3. HAZARDS IDENTIFICATIONS**

**PHYSICAL PROPERTIES:**

Appearance: Eggshell white liquid  
 Odor: Mild chemical odor

**EMERGENCY OVERVIEW:** CAUTION. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**PRIMARY ROUTES OF EXPOSURE:** Skin and eye and inhalation.

**POTENTIAL HEALTH EFFECTS:** Effects from overexposure may result from either swallowing, inhaling or coming into contact with the skin or eyes. Symptoms of overexposure include bleeding from the nose, tremors and convulsions. Contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hours.

**MEDICAL CONDITIONS AGGRAVATED:** None known.

**4. FIRST AID MEASURES**

FIRST AID	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</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>
<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 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye.</li> <li>• Call a poison control center or doctor for 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.

**Note to Physician** - This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT:** >100°C/212°F (TCC)

### FLAMMABLE LIMITS

LFL: Not available

UFL: Not available

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, or dry chemical. Soft stream water fog only if necessary. Contain runoff.

**FIRE & EXPLOSION HAZARDS:** Slightly combustible. This material may support combustion at elevated temperature.

**FIRE-FIGHTING PROCEDURES:** Isolate fire area and evacuate downwind. DO NOT breathe gases, smoke or vapors generated. Wear self-contained breathing apparatus and full-protective clothing.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Under fire conditions, may produce carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen fluoride, chlorine and fluorine.

## 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spills. Keep unprotected people, pets and other animals away from spills. In case of spillage or leakages, soak up with an absorbent material such as sand, sawdust, earth, Fuller's earth, etc. Dispose of with chemical waste.

## 7. HANDLING AND STORAGE

Do not contaminate water, food, or feed by storage or disposal.

**PRECAUTIONS TO BE TAKEN IN HANDLING:** Do not use or store near heat, open flame or hot surfaces. Carefully open containers and after partial use close container tightly. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**PRECAUTIONS TO BE TAKEN IN STORAGE:** Store upright at room temperature. Avoid exposure to extreme temperatures. Store in a cool, dry area that is inaccessible to children, pets, and other animals. Store concentrate only in the original container. Never put dilute or concentrated Bifenthrin Golf & Nursery 7.9F in containers for food or beverages. When opening containers, take appropriate care to avoid spills. Securely replace lids after partial use.

**STORAGE TEMPERATURE (MIN/MAX):** Normal ambient temperatures. Avoid excessive heat.

## 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 or chemical safety glasses with side shields or chemical goggles when working in non-ventilated spaces.

**SKIN PROTECTION:** Long-sleeve shirt, long pants, shoes plus socks.

**HAND PROTECTION:** Chemical-resistant gloves.

**RESPIRATOR REQUIREMENTS:** All pesticide handlers must wear a respiratory protection device when working in a non-ventilated space. Use one of the following: NIOSH-approved

respirator with an R, P, or HE filter or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

**VENTILATION:** Whenever possible, adequate ventilation should be used to minimize the need for personal protective equipment.

**WORK HYGIENIC PRACTICES:**

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Thoroughly wash the outside of gloves with soap and water prior to removal. Remove and wash contaminated clothing and wash before reuse; use detergent and hot water. Keep and wash separately from other laundry. Leather items (such as watchbands, belts, shoes) that become contaminated should be removed and destroyed.

**ADDITIONAL PROTECTIVE MEASURES:**

Follow manufacturer's instructions for cleaning/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.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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

**ENGINEERING CONTROLS:** Minimize airborne concentrations.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Eggshell white liquid

**ODOR:** Mild chemical odor

**pH:** 5.8-6.2

**FLASH POINT:** >100°C/212°F (TCC)

**SPECIFIC GRAVITY:** 1.038 @ 20° C

**SOLUBILITY IN WATER:** Disperses

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable. Store in a cool, dry, well-ventilated place.

**CONDITIONS TO AVOID:** Avoid excessive heat or fire. Do not use or store near heat, open flame or hot surfaces.

**POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY/IRRITATION STUDIES**

- |  |               |
|--|---------------|
| Acute Oral LD <sub>50</sub> (Rat):       | > 500 mg/kg   |
| Acute Dermal LD <sub>50</sub> (Rat):     | >2,000 mg/kg  |
| Acute Inhalation LC <sub>50</sub> (Rat): | >10 mg/L/1 hr |
| Eye Irritation:                          | Not available |
| Skin Irritation:                         | Not available |
| Dermal Sensitization:                    | Not available |

**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. Do not apply directly to water, to areas where surface waters present or to intertidal areas below

the mean high water mark. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas.

Do not contaminate water when disposing of equipment washwaters. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds. 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 to drift to blooming crops if bees are visiting the treatment area.

### 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Do not contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

### 14. TRANSPORT INFORMATION

**DOT CLASSIFICATION:**

Not Regulated.

**INTERNATIONAL TRANSPORTATION:**

**IMO (vessel):** UN3082, Environmentally Hazardous substances, liquid, n.o.s. (bifenthrin), 9, PG III, Marine Pollutant

**IATA (air):** Not Regulated.

### 15. REGULATORY INFORMATION

**SARA TITLE III CLASSIFICATION:**

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)

Chronic health hazard (delayed)

Section 313: Bifenthrin (7.9%) CAS #:82657-04-3

**CA PROPOSITION 65:** Not applicable

**CERCLA RQ:** Not applicable

**RCRA CLASSIFICATION:** 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:** The ingredients of this product are listed on the TSCA inventory or are exempt.

### 16. OTHER INFORMATION

HAZARD RATINGS	NFPA	HMIS	
HEALTH:	1	1	0 MINIMAL
FLAMMABILITY:	1	1	1 SLIGHT
REACTIVITY:	0	0	2 MODERATE
			3 HIGH
			4 SEVERE

**MSDS DATE:** 9-24-10. Supersedes versions dated 11-3-09 and 10-23-07. Changes made to Section 1, 6 and 7.

The information herein is given in good faith, but no warrant, express or implied, is made. Consult Makhteshim Agan of North America, Inc. for further information.