



# TALAK™

## 7.9% F

### SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

#### 1. IDENTIFICATION

**PRODUCT NAME:** Talak 7.9%  
**DESCRIPTION:** Synthetic pyrethroid  
**EPA REG. NO.:** 91234-145  
**COMPANY IDENTIFICATION:** Atticus, LLC  
 5000 CentreGreen Way, Suite 100  
 Cary, NC 27513

#### 2. HAZARD IDENTIFICATION

##### WARNING

Suspected of causing cancer (H351)  
 May cause damage to organs through prolonged or repeated exposure (H373)  
 Harmful in swallowed (H302)  
 Harmful if inhaled (H332)  
 May be harmful in contact with skin (H313)  
 Very toxic to aquatic life with long lasting effects (H400+H410)



##### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Carcinogenicity	2	None	-
Specific target organ toxicity (repeated exposure)	2		
Acute toxicity, oral	4	Environmental Hazards	Category
Acute toxicity, inhalation	4	Hazardous to the Aquatic Environment – short-term	1
Acute toxicity, dermal	5	Hazardous to the Aquatic Environment – long-term	1

##### HAZARDS NOT REQUIRING CLASSIFICATION

Do not apply water-based dilutions of Bifen 7.9 SC to electrical conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of possible shock hazard.

##### PRECAUTIONARY STATEMENTS

Obtain, read, and follow all safety instructions before use. Do not breathe mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves and clothing. (P203+P260+P264+P270+P271+P280)

Get medical help if you feel unwell. (P319)

**IF SWALLOWED:** Get medical help. Rinse mouth. (P301+P317+P330)

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Get medical help. (P304+P340+P317)

**IF ON SKIN:** Get medical help. (P302+P317)

IF exposed or concerned, get medical advice. (P318)

Store locked up. (P405)

Avoid release to the environment not in accordance with the product label. Collect spillage (P273+P391)

Dispose of contents / container using instructions in the product label and in accordance with local / Federal regulations. (P501)

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Bifenthrin	(2 methyl[1,1' -biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate	82657-04-3	7.9%

NOTE: Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

#### 4. FIRST AID MEASURES

Have the product container with you when calling a poison control center or doctor or going for treatment. For information on this product, contact the National Pesticide Information Center, 1-800-858-7378, Monday-Friday, 7: 30 AM-3:30 PM PST. You may also contact the National Poison Control Center, 1-800-22-1222, day or night, for emergency medical treatment information.

**IF SWALLOWED:** 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED:** 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.

**IF ON SKIN OR CLOTHING:** 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.

**IF IN EYES:** Hold eye open and rinse 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.

**NOTE TO PHYSICIAN:** 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. FIREFIGHTING MEASURES

**Flash Point:** Not flammable. Water based product.

**Flammable Limits:** Not determined.

**Fire and Explosion Hazards:** Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

**Extinguishing Medium:** Considered slightly combustible, use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.

**Fire Fighting Equipment:** Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

**Fire Fighting Instructions:** Evacuate the area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect fire-extinguishing water to prevent environmental damage with excessive water runoff.

**Hazardous Combustion Products:** May include but are not limited to oxides of carbon, hydrogen chloride, hydrogen fluoride, and unidentified organic compounds.

**NFPA Ratings:** Health – 2 / Flammability – 0 / Reactivity – 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**Environmental Precautions:** Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

**Spill Cleanup:** Dike spill using suitable absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following cleanup. Collect washings for disposal.

## 7. HANDLING AND STORAGE

**Keep out of reach of children.**

**Handling:** Avoid contact with skin, eyes or clothing. A void breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

**Storage:** Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use replace lids and close tightly. Do not put concentrate or dilute material into food or drink container.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

**Protective Clothing:** Applicators and other handlers must wear: long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves. After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer system, or an in-line injector system, shirt, pants, socks, shoes, and waterproof gloves are sufficient. In addition, all pesticide handlers must wear a respiratory protection device<sup>1</sup> when working in a non-ventilated space. All pesticide handlers must wear protective eyewear when working in nonventilated space or when applying termiticide by rodding or sub-slab injection.

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

**General:** 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. Discard clothing and other absorbent materials that have been heavily contaminated with this product. 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	white liquid
<b>Odor:</b>	mild chemical
<b>Melting/Freezing point:</b>	not available
<b>Boiling Point/Boiling Range:</b>	not available
<b>Flammability:</b>	not available
<b>Flammability Limits (upper/lower):</b>	not available
<b>Flash Point:</b>	not available
<b>Auto-ignition Temperature:</b>	not available
<b>Decomposition Temperature:</b>	not available
<b>pH:</b>	6.45 (1% in water)
<b>Viscosity:</b>	59.9 cps @ 25°C; 40.3 cps @ 40°C
<b>Water Solubility:</b>	emulsifies in water
<b>Partition coefficient:</b>	not available
<b>Vapor Pressure:</b>	not available
<b>Density:</b>	1.045 gm/cm <sup>3</sup> @ 25°C; 1.030 gm/cm <sup>3</sup> @ 40°C
<b>Bulk Density:</b>	not available
<b>Particle Characteristics:</b>	not available

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Avoid excessive heat and flame.

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

**INCOMPATIBILITY WITH OTHER MATERIALS:** No materials to be especially mentioned.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May emit hazardous of oxides of carbon, hydrogen chloride, hydrogen fluoride, and unidentified organic compounds when exposed to excessive heat or burned.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Information presented below is from testing done on an identical or substantially similar product:**

**ORAL TOXICITY (rat LD<sub>50</sub>):** 310 mg/kg

**DERMAL TOXICITY (rabbit LD<sub>50</sub>):** > 5,000 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** > 2.65 mg/L (4-hour)

**EYE IRRITATION:** Causes mild eye irritation (Rabbits)

**SKIN IRRITATION:** Non-irritating

**SKIN SENSITIZATION:** Not a contact sensitizer.

**CARCINOGENICITY:**

**EPA:** Group C – Possible human carcinogen (bifenthrin)

**ACGIH:** Not listed      **NTP:** Not listed

**IARC:** Not listed      **OSHA:** Not listed

**MUTAGENIC TOXICITY:** No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

## 11. TOXICOLOGICAL INFORMATION (CONT.)

**REPRODUCTIVE TOXICITY / TERATOGENICITY:** The active ingredient (bifenthrin) causes developmental effects in animals at high, maternally toxic doses.

**STOT- Repeated Exposure:** Large doses of bifenthrin ingested by laboratory animals produced signs of toxicity including convulsions, tremors and bloody nasal discharge. Long-term exposure causes neurotoxicity (tremors and impaired gait) in the early exposure in animal studies, but tremors disappears with continued exposure. Bifenthrin caused damage to the central nervous system through single and prolonged or repeated exposure.

## 12. ECOLOGICAL INFORMATION

Extremely toxic to fish and aquatic invertebrates.

Moderately stable in soil under aerobic conditions (half-life ranging from 65 to 125 days) and at a wide range of pH values. Bifenthrin is readily bound to organic matter, is not mobile in soils, and has a very low potential to contaminate groundwater.

The following information is for the active ingredient, Bifenthrin:

### AQUATIC TOXICITY

Rainbow trout: (96h LC<sub>50</sub>): 0.15 µg/L  
Daphnia: (48h EC<sub>50</sub>): 1.6 µg/L (NOAEC): 0.0013 µg/L  
Shrimp: (96h LC<sub>50</sub>): 0.004 µg/L

### AVIAN TOXICITY

Bobwhite Quail (LD<sub>50</sub>): 1,800 mg/kg  
Mallard Duck (LD<sub>50</sub>): > 2,150 mg/kg

## 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:** Nonrefillable and refillable containers. Refer to the product label for specific container disposal instructions.

## 14. TRANSPORT INFORMATION

### US-DOT:

Not regulated

### IMDG:

Containers ≤ 1.3 gal. (5 L) in strong outer packaging:

Not regulated

Containers > 1.3 gal. (5 L) or containers not in strong outer packaging:

Shipped internationally by vessel: UN3082, Environmentally hazardous substance, liquid, N.O.S. (contains bifenthrin) 9, PG III, Marine Pollutant

### IATA:

Shipped by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (contains bifenthrin) 9, PG III, Marine Pollutant

## 14. TRANSPORT INFORMATION (CONT.)

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## 15. REGULATORY INFORMATION

### FIFRA -

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. A void contact with skin, eyes or clothing. A void breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

#### ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

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.

#### PHYSICAL/CHEMICAL HAZARDS

Do not apply water-based dilutions of Bifen 7.9 SC to electrical conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of possible shock hazard.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

**SARA Title III - Section 302 Extremely Hazardous Substances**  
Not listed

**SARA Title III - Section 311/312 Hazard Categories**  
Immediate (Acute), Delayed (Chronic)

**SARA Title III - Section 312 Threshold Planning Quantity**  
Not available

**SARA Title III - Section 313 Reportable Ingredients**  
Bifenthrin (CAS No. 82654-04-3): 7.9%

**CERCLA Reportable Quantity (RQ) -**  
Not listed

#### CALIFORNIA PROP 65 STATUS -

This product does not contain any chemical known to the State of California to cause cancer or other reproductive harm.

#### CANADA -

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

## 16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

To the extent consistent with applicable law, neither Atticus, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ATTICUS, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ATTICUS, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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