



TALAK™ 7.9% F

SAFETY DATA SHEET

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

Section 1: Material and Company Identification

PRODUCT NAME: Talak™ 7.9% F
EPA REG. NO.: 91234-145
CHEMICAL CLASS: Synthetic Pyrethroid
COMPANY IDENTIFICATION: Atticus, LLC
5000 CentreGreen Way, Suite 100
Cary, NC 27513

Section 2: Hazards Identification

Classification in accordance with regulation HCS 29CFR §1910.1200



WARNING

Harmful if swallowed, inhaled, or absorbed through skin.
Causes moderate eye irritation.
Avoid contact with skin, eyes or clothing.
Avoid breathing spray mist.

Overexposure by the ingestion of large quantities may result in bleeding from the nose, convulsions, and tremors.

Potential Health Effects:

EYE: May cause eye irritation.

SKIN: Practically non-irritating to the skin. May cause slight skin irritation with prolonged or repeated contact. Skin sensations such as rashes, numbing, burning, or tingling may occur in certain individuals. These skin sensations are reversible and usually subside within 12 hours. Not a sensitizer.

INHALATION: May cause irritation to the nasal region and respiratory tract.

INGESTION: Harmful if swallowed.

Potential Physical Hazards: Can decompose at high temperatures forming toxic gases.

Environmental Hazards: Extremely toxic to fish, other water organisms and bees. Keep out of waterways.

Section 3: Composition/ Information on Ingredients

MATERIAL:	% BY WT.
Bifenthrin (CAS #82657-04-3)	7.9%
Other Ingredients:	92.1%

Section 4: First Aid Measures

FIRST AID

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 15-20 minutes.
Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye.
Call a poison control center or doctor for treatment advice.

Have the product container or label 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, 1-800-222-1222, day or night, for emergency medical treatment information.

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.

Section 5: Fire-Fighting Measures

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Category	Rating
Health	2
Flammability	0
Reactivity	0

FLASH POINT (°F/Test Method): Not flammable. Water based product.

FLAMMABLE LIMITS (LFL & UFL): Not established

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

HAZARDOUS COMBUSTION PRODUCTS: May include but are not limited to oxides of carbon, hydrogen chloride, hydrogen fluoride, and unidentified organic compounds.

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Mists or vapors can travel to a source of ignition and flashback.

Section 6: Accidental Release Measures

SPILLS OR LEAKS: Wear protective clothing as described in Section 8 of this SDS.

SMALL SPILL: Contain small spill by diking with a suitable absorbent material. Sweep up absorbed spill and place material in appropriate recovery drums for disposal.

LARGE SPILL: Contain large spill by diking with a suitable absorbent material and recover for disposal. After removal, neutralize the spill area, tools, and equipment with a dilute alkaline solution (soda ash or lime) followed by an appropriate alcohol (methanol, ethanol or isopropanol). Wash the spill area, tools, and equipment with strong soap and water solution. Absorb any excess liquid and add to the recovery drums of waste already collected. Dispose all wastes as described in Section 13.

Section 7: Handling and Storage

Keep out of reach of children. Do not contaminate water, food or feed by storage or disposal.

HANDLING: Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling this product. Use only in a well ventilated area.

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.

Section 8: Exposure Controls/Personal Protection

EXPOSURE LIMITS: (8 hour TWA): None established.

MATERIAL:	OSHA PEL	ACGIH TLV
Active Ingredient: Bifenthrin	Not established	Not established
Other Ingredients:	Not established	Not established

VENTILATION: Provide general and/or local exhaust ventilation. Ventilate all transport vehicles prior to unloading.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

All pesticide handlers (mixers, loaders, and applicators) 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 device¹ when working in a non-ventilated space. All pesticide handlers must wear protective eye-wear when working in non-ventilated space or when applying termiticide by rodding or subslab injection.

¹Use one of the following Mine Safety and Health Administration (MSHA)/National Institute for Occupational Safety and Health (NIOSH) air purifying respirator types with approval number prefixes: TC-23C, TC-21C, TC-19C, TC-13F and TC-14G, or a NIOSH approved respirator with any 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.

Section 9: Physical and Chemical Properties

Color:	White opaque
Physical State:	Liquid
Odor:	Mild chemical
pH:	6.45 (1% in water)
Viscosity:	59.9 cps @ 25° C; 40.3 cps @ 40° C
Density:	1.045 gm/cm ³ @ 25° C; 1.030 @ 40° C
Vapor Pressure:	Not established
Boiling Point:	Not established
Solubility:	Emulsifies in water.

Section 10: Stability and Reactivity

STABILITY:	Stable, however may decompose if heated.
CONDITIONS TO AVOID:	Avoid excessive heat and flame.
INCOMPATIBILITY:	None known.
HAZARDOUS DECOMPOSITION PRODUCTS:	May emit hazardous fumes of oxides of carbon, hydrogen chloride, hydrogen fluoride, and unidentified organic compounds when exposed to excessive heat or burned.
HAZARDOUS POLYMERIZATION:	Will not occur.

Section 11: Toxicological Information

Acute Oral LD₅₀ (female rat):	310 mg/kg
Acute Dermal LD₅₀ (rabbit):	> 5,000 mg/kg
Eye Irritation (rabbit):	Causes mild eye irritation
Skin Irritation (rabbit):	Non-irritating
Inhalation LC₅₀ (rat):	>2.65 mg/L (4 HR.)
Skin Sensitization (guinea pig):	Not a sensitizer

Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH. EPA classified Bifenthrin as a Group C possible human carcinogen based on limited evidence of carcinogenicity in animals and in the absence of human data.

Section 12: Ecological Information

ENVIRONMENTAL SUMMARY: 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.

AQUATIC TOXICITY: LC50 (96h) for rainbow trout: 0.15 µg/l
LC50 (48h) for Daphnia: 0.16 µg/l

ENVIRONMENTAL FATE: 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.

Section 13: Disposal Considerations

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

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 Handling: Plastic Container: Non-refillable Containers. Do not reuse or refill this container. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

Containers 5 gallons or less: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Once cleaned, offer for recycling if available.

Containers larger than 5 gallons: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Once cleaned, offer for recycling or reconditioning if appropriate.

Pressure rinse as follows (all sizes): Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water.

Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing process two more times.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC 1-800-424-9300.

Section 14: Transport Information

U.S. SURFACE FREIGHT CLASSIFICATION: This product is not subject to DOT regulations as a hazardous material when shipped in non-bulk packages.

SPECIAL NOTE: The following applies for shipments over water, and shipments in bulk packages:

PROPER SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin)

HAZARD CLASS OR DIVISION: 9

IDENTIFICATION NUMBER: UN 3082

PACKING GROUP: PG III

ADDITIONAL INFORMATION: Severe Marine Pollutant

Section 15: Regulatory Information

FIFRA INFORMATION: 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 the workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

Caution. Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid 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.

All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

OSHA HAZARD

COMMUNICATION STANDARD STATUS: Regulated

CERCLA REPORTABLE QUANTITY: Not Listed

SARA TITLE III STATUS:

- | | |
|--------------------------------------|--|
| • 302 Extremely Hazardous Substance: | Not Listed |
| • 311/312 Hazard Categories: | Immediate health hazard
Delayed health hazard |
| • 313 Toxic Chemicals: | Bifenthrin 7.9% |
| • California Proposition 65 Status: | Not Listed |

Section 16: Other Information

This document is prepared pursuant to the OSHA Hazard Communication Standard (HCS) (29 CFR Part 1910.1200(g)), revised in 2012. In addition, other substances not "Hazardous" per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state, and local laws and regulations. See SDS for health and safety information.

SDS Version: 2.0

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Revised: May 21, 2015



Manufactured for:
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