

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 09.08.2025 Page 1 of 12

SECTION 1: Identification

Product Identifier

Product Name: Talak 7.9% F

Synonyms: EPA REG. NO.: 91234-145

Atticus

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: A liquid insecticide

Uses Advised Against: Any use other than recommended above.

Reasons Why Uses Advised Against: Not determined or not applicable.

Manufacturer or Supplier Details

Manufacturer:

United States

Atticus, LLC 940 NW Cary Parkway

Suite 200

Cary, North Carolina 27513

(984) 465-4754

Emergency Telephone Number:

For Chemical Emergency

CHEMTREC

1-800-424-9300 (24 hours)

+1-703-527-3887 (24 hours)

Collect calls accepted

For Emergency Medical Treatment Information

SAFETYCALL

1-844-685-9173 (24 hours)

SECTION 2: Hazard(s) Identification

GHS Classification:

Acute toxicity (inhalation), category 4

Acute toxicity (oral), category 4

Carcinogenicity, category 2

Specific target organ toxicity - single exposure, category 1

Specific target organ toxicity - repeated exposure, category 1

Acute aquatic hazard, category 1

Chronic aquatic hazard, category 1

Label elements

Hazard Pictograms:







According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 09.08.2025 Page 2 of 12

Talak 7.9% F

Signal Word: Danger

Hazard statements:

H332 Harmful if inhaled

H302 Harmful if swallowed

H373 May cause damage to organs through prolonged or repeated exposure.

H351 Suspected of causing cancer.

H370 Causes damage to organs.

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Precautionary Statements:

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read label before use

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P261 Do not breathe mist, vapors or spray.

P264 Wash face, hands and any exposed skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product

P271 Use only outdoors or in a well-ventilated area

P280 Wear protective gloves, protective clothing and eye protection.

P273 Avoid release to the environment

P301 IF SWALLOWED: Get emergency medical help.

P330 Rinse mouth

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P308+P313 If exposed or concerned: Get medical advice or attention.

P314 Get medical advice and attention if you feel unwell.

P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).

P391 Collect spillage

P405 Store locked up

P501 Dispose of contents and container in accordance with federal, state and local regulations.

Hazards Not Otherwise Classified:

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

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 82657-04-3	Bifenthrin	7.9
CAS Number: 57-55-6	Propylene glycol	0.5-2

Additional Information:

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

SECTION 4: First Aid Measures

Description of First Aid Measures

Initial Preparation Date: 09.08.2025 Pag

Talak 7.9% F

General Notes:

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at 1-844-685-9173 for emergency medical treatment information. For Chemical Emergency: spill, leak, fire, exposure or accident, call CHEMTREC day or night within USA and Canada at 1-800-424-9300 or +1-703-527-3887 (collect calls accepted).

Show this Safety Data Sheet to the doctor in attendance.

After Inhalation:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

After Skin Contact:

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.

After Eye Contact:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

After Swallowing:

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.

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Causes damage to organs. Effects are dependent on exposure (dose, concentration, contact time). Central nervous system effects.

Delayed Symptoms and Effects:

Suspected of causing cancer. Effects are dependent on exposure (dose, concentration, contact time). Central nervous system effects.

Immediate Medical Attention and Special Treatment

Specific Treatment:

If exhibiting symptoms of exposure, seek prompt medical attention.

Notes for the Doctor:

Treat symptomatically.

This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Digestible fats, oils, or alcohol may increase absorption and should be avoided.

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

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

Unsuitable Extinguishing Media:

Do not use water jet.

Specific Hazards During Fire-Fighting:

Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion. Hazardous Combustion Products: May include but are not limited to oxides of carbon hydrogen chloride, hydrogen fluoride, and unidentified organic compounds.

Page 3 of 12

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 09.08.2025 Page 4 of 12

Talak 7.9% F

This product is a water-based, non-flammable, liquid.

Special Protective Equipment for Firefighters:

Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

Special precautions:

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.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

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.

Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing.

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.

Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use

Conditions for Safe Storage, Including Any Incompatibilities:

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, then 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

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 09.08.2025 Page 5 of 12

Talak 7.9% F

Country (Legal Basis)	Substance	Identifier	Permissible concentration
WEEL	Propylene glycol	57-55-6	8-Hour TWA: 10 mg/m ³

Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal Protection Equipment

Eye and Face Protection:

All pesticide handlers must wear protective eyewear when working in nonventilated space or when applying termiticide by rodding or sub-slab injection.

Skin and Body Protection:

Applicators and other handlers must wear: long-sleeved shirt, long pants, socks, shoes, and chemicalresistant 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.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

All pesticide handlers must wear a respiratory protection device when working in a non-ventilated space.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

Remove PPE (personal protective equipment) 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.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance	white liquid
Odor	mild chemical
Odor threshold	Not determined or not available.
pH	6.45 (1% in water)
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 09.08.2025 Page 6 of 12

Talak 7.9% F

Not determined or not available.
Not determined or not available.
1.045 g/cm3 @ 25 ºC; 1.030 gm/cm3 @ 40 ºC
Not determined or not available.
emulsifies in water
Not determined or not available.
Not determined or not available.
Not determined or not available.
59.9 cP @ 25 ºC; 40.3 cP @ 40 ºC
Not determined or not available.
Not determined or not available.
Not determined or not available.

SECTION 10: Stability and Reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical Stability:

Stable under recommended handling and storage conditions.

Possibility of Hazardous Reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to Avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Incompatible Materials:

None known.

Hazardous Decomposition Products:

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

SECTION 11: Toxicological Information

Acute Toxicity

Assessment:

Harmful if swallowed.

Harmful if inhaled.

Product Data:

Route	Result
Oral	LD50 Rat: 310 mg/kg
Dermal	LD50 Rabbit: > 5,000 mg/kg
Inhalation	LC50 Rat: > 2.65 mg/L (4 hrs)

Substance Data:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 09.08.2025 Page 7 of 12

Talak 7.9% F

Name	Route	Result
Bifenthrin	oral	LD50 Rat: 54 mg/kg
	Inhalation ATE	LC50 Rat: 0.05 mg/L (4hr [dust/mist])
	dermal	LD50 Rabbit: > 2,000 mg/kg

Skin Corrosion/Irritation

Assessment: Based on available data, the classification criteria are not met.

Product Data: Non-irritating

Substance Data:

Name	Result
Bifenthrin	Moderately irritating (rabbit)

Serious Eye Damage/Irritation

Assessment: Based on available data, the classification criteria are not met.

Product Data:

Causes mild eye irritation (Rabbits)

Substance Data:

Name	Result
Bifenthrin	Mildly irritating (rabbit)

Respiratory or Skin Sensitization

Assessment: Based on available data, the classification criteria are not met.

Product Data:

Not a contact sensitizer.

Substance Data:

Name	Result
Bifenthrin	Not a contact sensitizer (guinea pig, Buehler Method)

Carcinogenicity

Assessment:

Suspected of causing cancer. Product Data: No data available. Substance Data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Bifenthrin	Not Applicable

National Toxicology Program (NTP):

Name	Classification
Bifenthrin	Not Applicable

OSHA Carcinogens: Not applicable

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

No evidence of mutagenic effects during in vivo and in vitro assays.

Substance Data:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 09.08.2025

Talak 7.9% F

Name	Result
Bifenthrin	No evidence of mutagenic effects during in vivo and in vitro assays.

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

The active ingredient (bifenthrin) causes developmental effects in animals at high, maternally toxic doses.

Substance Data:

Name	Result
Bifenthrin	Not known to cause reproductive or birth defects at normal exposure levels.

Specific Target Organ Toxicity (Single Exposure)

Assessment:

Causes damage to organs.

Product Data:

No data available.

Substance Data:

Name	Result
Bifenthrin	Causes damage to nervous system through single exposure.

Specific Target Organ Toxicity (Repeated Exposure)

Assessment:

Causes damage to organs through prolonged or repeated exposure.

Product Data:

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 disappear with continued exposure. Bifenthrin caused damage to the central nervous system through single and prolonged or repeated exposure.

Substance Data:

Name	Result
	Causes damage to nervous system through prolonged or repeated exposure.
	exposure.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:No data available.

Substance Data: No data available.

Information on Likely Routes of Exposure:

No data available.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

Other Information:

The information presented above is from testing done on an identical or substantially similar product.

SECTION 12: Ecological Information

Acute (Short-Term) Toxicity

Page 8 of 12

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 09.08.2025 Page 9 of 12

Talak 7.9% F

Assessment:

Very toxic to aquatic life.

Extremely toxic to fish and aquatic invertebrates.

Highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds.

Product Data: No data available.

Substance Data:

Name	Result
Bifenthrin	Fish LC50 Rainbow Trout: 0.00015 mg/L (96-hour)
	Aquatic Invertebrates EC50 Daphnia: 0.0016 mg/L (48-hour)

Chronic (Long-Term) Toxicity

Assessment:

Very toxic to aquatic life with long lasting effects.

Product Data: No data available. Substance Data: No data available.

Persistence and Degradability Product Data: No data available.

Substance Data:

Name	Result
	Moderately stable in soil under aerobic conditions (half-life ranging from 65 to 125 days) and at a wide range of pH values.

Bioaccumulative Potential

Product Data: No data available. Substance Data: No data available.

Mobility in Soil

Product Data: No data available. Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT. **vPvB** assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT. **vPvB** assessment: This product does not contain any substances that are assessed to be a vPvB.

Other Adverse Effects: No data available.

SECTION 13: Disposal Considerations

Disposal Methods:

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.

Contaminated packages:

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

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 09.08.2025 Page 10 of 12

Talak 7.9% F

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User None	
Additional Information	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.

International Maritime Dangerous Goods (IMDG)

UN Number	UN3082
UN Proper Shipping Name	Environmentally hazardous substance, liquid, N.O.S. (bifenthrin)
UN Transport Hazard Class(es)	9
Packing Group	III
Environmental Hazards Marine Pollutant	
Special Precautions for User	None
Excepted Quantities Containers ≤ 1.3 gal. (5 L) in strong outer packaging	
Additional Information	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.

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	UN3082
UN Proper Shipping Name Environmentally hazardous substance, liquid, N.O.S. (bifenthe	
UN Transport Hazard Class(es)	9
Packing Group	III
Environmental Hazards	Marine Pollutant
Special Precautions for User	None

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 09.08.2025 Page 11 of 12

Talak 7.9% F

Additional Information	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.

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals:

82657-04-3	Bifenthrin	Listed
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CERCLA: None of the ingredients are listed.

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know: None of the ingredients are listed.

New Jersey Right to Know:

57-55-6	Propylene glycol	Listed
82657-04-3	Bifenthrin	Listed

New York Right to Know: None of the ingredients are listed.

Pennsylvania Right to Know:

57-55-6	Propylene glycol	Listed
	1	

California Proposition 65: None of the ingredients are listed.

Additional information:

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

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

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 09.08.2025 Page 12 of 12

Talak 7.9% F

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 areas. PHYSICAL/CHEMICAL HAZARDS

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

SECTION 16: Other Information

Abbreviations and Acronyms: None **Disclaimer:**

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.

NFPA: 2-0-0

Initial Preparation Date: 09.08.2025

End of Safety Data Sheet