



# SAFETY DATA SHEET

## Pivot Ultra Plus

### SECTION 1: IDENTIFICATION

**Product Name:** Pivot Ultra Plus  
**EPA Registration No.:** 53883-421  
**Recommended Use:** Insecticide; See product label for a complete list of uses and use sites.  
**Restrictions on Use:** See product label for any restrictions on the use of this product.  
**Chemical Family:** N/A – Multiple Active Ingredients  
**Chemical Name of Active Ingredient(s):** Etofenprox  
 Pyriproxyfen  
 Prallethrin  
**Manufactured for:** Control Solutions, Inc.  
 5903 Genoa-Red Bluff  
 Pasadena, TX 77507

**FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300**

**FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050**

### SECTION 2: HAZARD(S) IDENTIFICATION

**EMERGENCY OVERVIEW:** Aerosol with no odor. Ingestion of the concentrate material may be an aspiration hazard. Contents under pressure. Concentrate is a combustible liquid.

#### OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Aspiration Hazard	Category 1
Flammable Aerosol	Category 2

**Signal Word:** DANGER



**Hazard Statement(s):** May be fatal if swallowed and enters airways.

**Precautionary Statement(s):**

**Prevention:** Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
 Do not spray on an open flame or other ignition source.  
 Pressurized container: Do not pierce or burn, even after use.

**Response: IF SWALLOWED:** Immediately call a poison center/doctor. Do NOT induce vomiting.

**Storage:** Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal:** Dispose of contents/container in accordance with Federal, state and local laws and regulations.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS Number	Weight %
Distillates, petroleum, hydrotreated light	64742-47-8	15.0 – 20.0%
Hydrocarbon propellant	68476-86-8	<15.0%
Nonylphenol ethoxylate	127087-87-0	1.0 – 2.0%
Etofenprox	80844-07-1	1.0%
Pyriproxyfen	95737-68-1	0.2%
Prallethrin	23031-36-9	0.05%

\*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

**SECTION 4: FIRST AID MEASURES**

<b>IF IN EYES:</b>	Hold eye 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 treatment advice.
<b>IF ON SKIN:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
<b>IF INHALED:</b>	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.
<b>IF INGESTED:</b>	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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Most important symptoms/effects, acute and delayed:** Moderate but temporary skin irritation. Vomiting may cause aspiration pneumonia. Long-term exposure to skin without washing may cause moderate skin effects such as redness, dryness, sloughing and fissuring.

**Note to Physician:** Aspiration of this product during induced emesis can result in lung injury. If evacuation of stomach contents is considered necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation.

**SECTION 5: FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media:</b>	Foam, dry chemical, carbon dioxide or water fog/spray
<b>Unsuitable Extinguishing Media:</b>	Water jet
<b>Hazardous Combustion Products:</b>	Thermal decomposition may produce toxic carbon and nitrogen oxides, and halogenated hydrocarbons.
<b>Special Protective Equipment &amp; Precautions:</b>	Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear).
<b>Unusual Fire &amp; Explosion Hazards:</b>	Compressed gas. Containers may burst under fire conditions.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** See Section 8 for personal protection equipment.

**Environmental Precautions:** Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.

**Methods for Containment:** Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Absorb small spills with sand, vermiculite or other inert absorbent. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal.

**Methods for Clean-up:** Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.

**Other Information:** None known

**SECTION 7: HANDLING AND STORAGE**

**Handling:** RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes. Avoid all sources of ignition and high heat.

**Storage:** See pesticide label for full information on product storage. Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals. Containers may explode at or above listed maximum storage temperature.

**Storage Temperature (Min/Max):** Do not store at temperatures exceeding 122°F (50°C).

**Product Incompatibilities:** None known

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Users of a pesticide product must refer to the product label for personal protective equipment requirements.

**Exposure Guidelines:**

COMPONENT	OSHA PEL	ACGIH TLV	NIOSH REL
Petroleum distillates	500 ppm (TWA)		350 mg/m <sup>3</sup> (TWA) 1,800 mg/m <sup>3</sup> (CEIL)(15 min)
Propane	1000 ppm (TWA)	TWA/STEL: Simple asphyxiant	
n-Butane		STEL: 1000 ppm	

- Engineering Controls:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.
- Respiratory Protection:** In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for organic vapors.
- Eye Protection:** Chemical goggles or safety glasses and full-face shield.
- Protective Gloves:** Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.
- Other Protective Clothing:** Long-sleeved shirt, long pants and shoes plus socks.
- General Safety Measures:** Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. 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.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Aerosol (Concentrate is white)	<b>Upper/Lower Flammability Limits:</b>	Not determined
<b>Odor:</b>	Nearly odorless	<b>Vapor Pressure:</b>	Not determined
<b>Odor Threshold:</b>	Not determined	<b>Vapor Density:</b>	Not determined
<b>pH (1% dispersion):</b>	5.0 – 5.5	<b>Relative Density (@24°C):</b>	0.954 (typical)
<b>Melting /Freezing Point:</b>	Not determined	<b>Solubility in Water:</b>	Not determined
<b>Boiling Point/Range:</b>	Not determined	<b>Partition Coefficient:</b>	Not determined
<b>Flash Point:</b>	157°F (concentrate)	<b>Auto-ignition Temperature:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined	<b>Decomposition Temperature:</b>	Not determined
<b>Flammability:</b>	Not applicable	<b>Viscosity:</b>	Not determined

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity:</b>	No hazardous chemical reactions known if stored and handled as indicated.
<b>Chemical Stability:</b>	Stable under normal storage and handling conditions.
<b>Possibility of Hazardous Reactions:</b>	No potential for hazardous reactions known if stored and handled as indicated.
<b>Conditions to Avoid:</b>	Exposure to temperatures above 122°F (50°C). Avoid all sources of ignition: heat, sparks, open flames. Avoid prolonged storage.
<b>Incompatible Materials:</b>	None known
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may produce toxic carbon and nitrogen oxides, and halogenated hydrocarbons.

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Likely Routes of Exposure:</b>	Eye contact, Skin contact, Inhalation, Ingestion
<b>Symptoms of Exposure:</b>	Moderate but temporary skin irritation. Vomiting may cause aspiration pneumonia. Long-term exposure to skin without washing may cause moderate skin effects such as redness, dryness, sloughing and fissuring.
<b>Oral LD<sub>50</sub>:</b>	>5,000 mg/kg (rat)
<b>Dermal LD<sub>50</sub>:</b>	>5,050 mg/kg (rat)
<b>Inhalation LC<sub>50</sub>:</b>	>2.36 mg/L (rat)(no mortality at this concentration)
<b>Eye Irritation/Damage:</b>	Non-irritant (rabbit)
<b>Skin Corrosion/Irritation:</b>	Mild irritation with all effects clearing in 7 days (rabbit)
<b>Skin Sensitization:</b>	Non-sensitizer (guinea pig)
<b>Chronic/Subchronic Toxicity:</b>	No data available on the mixture
<b>Mutagenicity:</b>	No data available on the mixture
<b>Reproductive Toxicity:</b>	No data available on the mixture
<b>Neurotoxicity:</b>	No data available on the mixture
<b>Target Organs:</b>	No data available on the mixture
<b>Aspiration Hazard:</b>	Contains petroleum distillates, so concentrate prior to adding propellant may be an aspiration hazard.

**Carcinogenicity:**

Chemical Name	ACGIH	IARC	NTP	OSHA
None listed				

**SECTION 12: ECOLOGICAL INFORMATION****Environmental Hazards Statement from FIFRA Regulated Pesticide Label:**

This pesticide is highly 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 ensure that wind or rain do not blow or wash pesticide away from the treatment area.

**ECOTOXICITY DATA:**

<b>Fish Toxicity:</b>	No data available on the mixture
<b>Aquatic Invertebrate Toxicity:</b>	No data available on the mixture
<b>Aquatic Plant Toxicity:</b>	No data available on the mixture
<b>Avian Toxicity:</b>	No data available on the mixture
<b>Honeybee Toxicity:</b>	No data available on the mixture

**ENVIRONMENTAL EFFECTS:**

<b>Persistence and Degradability:</b>	No data available on the mixture
<b>Bioaccumulation:</b>	No data available on the mixture
<b>Mobility:</b>	No data available on the mixture
<b>Other Adverse Effects:</b>	No data available on the mixture

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Refer to the pesticide label for full information on disposal. Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

**Container Disposal:** Refer to the pesticide label for full information on disposal. When possible, triple rinse the container and offer for recycling if available.

**RCRA Characteristics:** It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste. Empty aerosol cans may meet the definition of RCRA D003. Consult local and/or regional EPA for further guidance.

**SECTION 14: TRANSPORTATION INFORMATION**

**DOT** UN1950, Aerosols, flammable, 2.1  
**(Ground):** This product may be classified as Limited Quantity.  
**IMDG**  
**(Sea):** UN1950, Aerosols, flammable, 2.1  
**IATA**  
**(Air):** UN1950, Aerosols, flammable, 2.1

**SECTION 15: REGULATORY INFORMATION**

**Labeling Requirements Under 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. Following is the hazard information as required on the pesticide label:

**CAUTION**

Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**TSCA Inventory:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

**SARA Title III Information:**

**Section 302 – Extremely hazardous substances:** None  
**Section 311/312 – Hazard Categories:** Acute (Immediate); Fire; Sudden release of pressure  
**Section 313 –** This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %
None listed		

**CERCLA** – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Chemical Name	CAS Number	RQ	Quantity of Finished Product
None listed			

**CALIFORNIA PROPOSITION 65:**

Chemical Name	CAS Number	Prop 65 Category(ies)
None listed		

**U.S. STATE RIGHT-TO-KNOW REGULATIONS:**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Nonylphenol ethoxylate	X		X
Etofenprox	X		X
Prallethrin	X		X
Distillates, petroleum, hydrotreated light	X	X	X

**SECTION 16: OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b> 2	<b>Flammability</b> 2	<b>Instability</b> 0	<b>Special Hazards</b> – None
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**Revision Date:** May 4, 2017  
**Document Superseded:** N/A – New document  
**Revision Note:**



# 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  
 940 NW Cary Parkway, Suite 200  
 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.

SDS Version: 2.0\_US

Effective Date: 02/15/2022



Manufactured for:  
**Atticus, LLC**  
940 NW Cary Parkway, Suite 200  
Cary, NC 27513



# Nixlo<sup>TM</sup>

## IGR Concentrate

### SAFETY DATA SHEET

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

#### 1. IDENTIFICATION

**PRODUCT NAME:** Nixlo IGR Concentrate  
**DESCRIPTION:** Insect Growth Regulator  
**EPA REG. NO.:** 91234-336  
**COMPANY IDENTIFICATION:** Atticus, LLC  
940 NW Cary Parkway, Suite 200  
Cary, NC 27513

#### 2. HAZARD IDENTIFICATION

##### WARNING

Causes skin irritation (H315)

Causes eye irritation (H320)

Very toxic to aquatic life with long lasting effects (H400+H410)



##### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Skin corrosion / irritation	2	None	-
Serious eye damage / eye irritation	2B		
Environmental Hazards			Category
Hazardous to the aquatic environment, short-term (acute)			1
Hazardous to the aquatic environment, long-term (chronic)			1

##### HAZARDS NOT REQUIRING CLASSIFICATION

DO NOT use this product in or on electrical equipment due to the possibility of shock hazard. Do not mix or allow contact with oxidizing agents as a hazardous chemical reaction may occur.

##### PRECAUTIONARY STATEMENTS

Wash hands and exposed skin thoroughly after handling. Do not touch eyes. Wear protective gloves. (P264+P265+P280)

**IF ON SKIN:** Wash with plenty of water. Specific treatment (section 4 of this document). If skin irritation occurs: Get medical help. Take off contaminated clothing and wash it before reuse.

(P302+P352+P321+P332+P317+P362+P364)

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **If eye irritation persists:** Get medical help. (P305+P351+P338+P337+P317)

Avoid release to the environment. (P273)

Collect spillage. (P391)

Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Pyriproxyfen	(2-[1-methyl-2-(4-phenoxyphenoxy)ethoxy]pyridine)	95737-68-1	10.0%

#### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical assistance, call SafetyCall®: **1-844-685-9173**. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: **1-800-424-9300**.

**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.

**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.

**NOTE TO PHYSICIAN:** Vomiting may cause aspiration pneumonia.

#### 5. FIREFIGHTING MEASURES

**Flash Point:** >230°F; >110°C

**Flammable Limits (LFL-UFL):** Not applicable.

**Fire and Explosion Hazards:** None known beyond normal fire hazards.

**Extinguishing Medium:** Water fog, foam, dry chemical, or carbon dioxide (CO<sub>2</sub>).

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

**Fire Fighting Instructions:** Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Use foam or dry chemical fire extinguishing systems to prevent environmental damage from excessive water runoff. Decontaminate fire fighting gear and personal protective equipment before reuse.

**Hazardous Combustion Products:** Carbon monoxide, carbon dioxide (CO<sub>2</sub>)

**NFPA Ratings:** Health – 2 / Flammability – 1 / Reactivity – 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

**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

**Handling:** Avoid contact with skin, eyes or clothing. Wear protective eyewear such as goggles, face shield, or safety glasses. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**Storage:** Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

## 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 waterproof chemical-resistant (Barrier Laminate or Viton  $\geq$  14 mils) gloves.

**General:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	golden amber liquid
<b>Odor:</b>	mild sweet
<b>Melting/freezing point:</b>	not determined
<b>Boiling point/Boiling range:</b>	not determined
<b>Flammability:</b>	not determined
<b>Flammability limits (upper/lower):</b>	not determined
<b>Flash point:</b>	$> 230^{\circ}\text{F}$ ; $> 110^{\circ}\text{C}$
<b>Auto-ignition temperature:</b>	not determined
<b>Decomposition temperature:</b>	not determined
<b>pH:</b>	4.75-5.75
<b>Capillary viscosity:</b>	9.15-14.0 cP @ 25-39°C
<b>Solubility:</b>	not determined
<b>Partition coefficient:</b>	not determined
<b>Vapor pressure:</b>	not determined
<b>Bulk Density:</b>	0.86-0.98 g/cm <sup>3</sup> (7.2-8.2 lb/gal)
<b>Relative vapor density:</b>	not determined
<b>Particle characteristics:</b>	not determined

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Extreme temperatures and direct sunlight.

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

**INCOMPATIBILITY WITH OTHER MATERIALS:** Incompatible with strong acids and bases. Incompatible with oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide (CO<sub>2</sub>)

**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>):**  $> 5,000$  mg/kg

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

**INHALATION TOXICITY (rat LC<sub>50</sub>):**  $> 5.05$  mg/L (4-hours)

**EYE IRRITATION:** Irritation cleared within 7 days (rabbit)

**SKIN IRRITATION:** Slight irritation at 72 hours (rabbit)

**SKIN SENSITIZATION:** Not a contact sensitizer (guinea pig)

**CARCINOGENICITY:**

**NTP:** Not listed

**IARC:** Not listed

**OSHA:** Not listed

**EPA:** Group E: Evidence of non-carcinogenicity for humans (Pyriproxyfen)

**MUTAGENIC TOXICITY:** No evidence of mutagenic effects for the technical grade material.

**REPRODUCTIVE TOXICITY:** Animal testing showed no reproductive toxicity for the technical grade material.

## 12. ECOLOGICAL INFORMATION

This pesticide is toxic to fish and aquatic invertebrates and practically non-toxic to birds and bees.

The following information is for the active ingredient, pyriproxyfen:

Bluegill Sunfish (LC<sub>50</sub>):  $> 0.25$  mg/L

Rainbow Trout (NOAEC): 4.3  $\mu\text{g/L}$

Dap-ia (48-hour EC<sub>50</sub>): 0.4 mg/L

Dap-ia (NOAEC): 0.015  $\mu\text{g/L}$  (very highly toxic - chronic)

Mysid (EC<sub>50</sub>): 0.065 mg/L (very highly toxic - acute)

Green Algae (72-hr IC<sub>50</sub>): 0.056 mg/L

Mallard/Bobwhite (Oral LD<sub>50</sub>):  $> 2,000$  mg/kg

Mallard/Bobwhite (Dietary LD<sub>50</sub>):  $> 5,200$  mg/kg

Bees (Contact/Oral LD<sub>50</sub>):  $> 100$   $\mu\text{g/bee}$

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

## 14. TRANSPORT INFORMATION

### US-DOT:

Not regulated

### IMDG:

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

### IATA:

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

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.** Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear protective eyewear such as goggles, face shield, or safety glasses. Wash hands 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 waterproof chemical-resistant (Barrier Laminate or Viton  $\geq$  14 mils) gloves. Do not induce vomiting because of aspiration pneumonia hazard. Obtain medical attention if irritation persists. Avoid contamination of food or feedstuffs.

See inside label booklet for additional precautionary statements.

##### ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

##### PHYSICAL OR CHEMICAL HAZARDS

DO NOT use this product in or on electrical equipment due to the possibility of shock hazard. Do not mix or allow coming in contact with oxidizing agent. Hazardous Chemical reaction may occur.

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

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

### SARA Title III – Section 313 Reportable Ingredients

Not listed

### 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

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SDS Version: 1.0

Effective Date: 08/11/2023