

# SAFETY DATA SHEET

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



## Section 1: Material and Company Identification

**Product Name:** Bifen 25% EC  
**EPA Reg. No:** 83520-4  
**Chemical Class:** Synthetic Pyrethroid

**Company Identification:**

**TACOMA AG, LLC**

P.O. Box 14073  
Durham, North Carolina 27709-9998

## Section 2: Hazards Identification

**Classification in accordance with regulation HCS 29CFR §1910.1200**



**WARNING**

May be fatal if swallowed.  
Causes substantial but temporary eye injury.  
Harmful if inhaled or absorbed through skin  
Do not use or store near heat or open flame.

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

**Potential Health Effects:**

**EYE:** Causes substantial but temporary eye injury

**SKIN:** Prolonged or repeated skin contact may cause rashes, numbing, burning, or tingling effects (paresthesia). 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.

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## Section 3: Composition/ Information on Ingredients

<b><u>MATERIAL:</u></b>	<b><u>% BY WT.</u></b>
Bifenthrin (CAS #82657-04-3)	25.0%
Other Ingredients, including Aromatic Hydrocarbons*, contains (CAS #64742-94-5 Naphthalene (CAS #91-20-5)	75.0%

## Section 4: First Aid Measures

### FIRST AID

<b>IF SWALLOWED:</b>	Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
<b>IF IN EYES:</b>	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.
<b>IF ON SKIN OR CLOTHING:</b>	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.
<b>IF INHALED:</b>	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.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For a medical emergency involving this product call: 1-800-222-1222.

**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. This product contains a petroleum distillate. Vomiting may cause aspiration pneumonia.

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## Section 5: Fire-Fighting Measures

### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Category	Rating
Health	3
Flammability	2
Reactivity	0

**FLASH POINT (°F/Test Method):** 164° F/73.3° C (Setaflash Closed Cup)

**FLAMMABLE LIMITS (LFL & UFL):** Not established

**EXTINGUISHING MEDIA:** Foam, dry chemical, carbon dioxide, water or fog.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors. Keep non-essential personnel away from the immediate fire area, and out of any fall-out or run-off areas.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Moderately combustible. When heated above the flashpoint, this material releases vapors which when mixed with air, can burn or be explosive.

## Section 6: Accidental Release Measures

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

**Small spill or leak:** Avoid bodily contact. Confine spill by diking with suitable absorbent material. Pick up absorbed spill and place in a suitable container for proper disposal in accordance with all Federal, State and Local regulations.

**Large spill or leak:** Follow basic procedure as outlined in small spill or leak steps above. To clean and neutralize spill area, tools and equipment, wash with a solution of caustic soda or soda ash, and an appropriate alcohol (methanol, ethanol or isopropanol). Follow this by washing with a strong soap and water solution. Absorb any excess liquid and add to the drums of waste collected. Repeat if necessary. Dispose in accordance with Federal, State and Local regulations. Do not allow any spill cleanup materials to enter waterways.

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## Section 7: Handling and Storage

Keep out of reach of children. Do not contaminate water, food or feed by storage or disposal. Do not use or store near heat or open flame.

**HANDLING:** Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling this product.

**STORAGE:** Keep out of reach of children and animals. Store in original containers only, in a cool, dry place and avoid excess heat. Do not freeze. Do not store below 40°F. Carefully open containers. If crystals are observed, warm material to above 60°F by placing container in warm location. Shake or roll container periodically to redissolve solids. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

## Section 8: Exposure Controls/Personal Protection

**EXPOSURE LIMITS:** (8 hour TWA): None Established

### MATERIAL:

Bifenthrin

Inerts (Trade Secret)

Aromatic Solvent

containing:

Naphthalene (<4%)

Trimethylbenzene (< 0.7%)

### OSHA PEL

Not established

Not Established

(Supplier recommends 100 mg/m3)

TWA 50 mg/m3

STEL 79 mg/m3

TWA 125 mg/m3

### ACGIH TLV

Not established

Not established

TWA 52 mg/m3

STEL 79 mg/m3

TWA 123 mg/m3

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Handlers who may be exposed to the dilute through application or other tasks must**

**wear:** Long-sleeved shirt and long pants Chemical-resistant gloves, such as barrier laminate, nitrile rubber, neoprene rubber, or viton shoes plus socks

**Handlers who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear:** Long-sleeved shirt and long pants; Chemical-resistant gloves, such as barrier laminate, nitrile rubber, neoprene rubber, or viton; shoes plus socks; Protective eyewear

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/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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## USER SAFETY RECOMMENDATIONS

### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## Section 9: Physical and Chemical Properties

COLOR:	Transparent yellow
PHYSICAL STATE:	Liquid
ODOR::	Aromatic hydrocarbon odor
SOLUBILITY:	Dispersible
SPECIFIC GRAVITY (Water = 1):	0.961 g/ml
BULK DENSITY:	8.00 lbs/gal.
pH:	5.36 (1% in water)
VAPOR PRESSURE:	Not established
BOILING POINT:	Not established
PERCENT VOLATILE (by volume):	Not established
EVAPORATION RATE:	Not established

## Section 10: Stability and Reactivity

STABILITY:	Stable
CONDITIONS TO AVOID:	Avoid excessive heat and fire.
INCOMPATIBILITY:	None known.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride.
HAZARDOUS POLYMERIZATION:	Will not occur.

## Section 11: Toxicological Information

Acute Oral LD <sub>50</sub> (female rat):	262 mg/kg
Acute Dermal LD <sub>50</sub> (rabbit):	> 2000 mg/kg
Eye Irritation (rabbit):	Causes minimal eye irritation

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**Skin Irritation (rabbit):** May cause moderate skin irritation

**Inhalation LC<sub>50</sub> (rat):** 1.86 mg/L (4 HR.)

**Skin Sensitization (guinea pig):** Non-Sensitizer

**Carcinogenic Potential:** No components listed in OSHA, NTP, IARC or ACGIH as a carcinogen.

## Section 12: Ecological Information

**ENVIRONMENTAL SUMMARY:** This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

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 it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

The use of Bifen 25% EC is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

**AQUATIC TOXICITY:**

LC <sub>50</sub> (96h) for rainbow trout:	0.15 µg/l
LC <sub>50</sub> (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. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

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**CONTAINER HANDLING: Nonrefillable container.** Do not reuse or refill container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

**Containers 5 gallons or less:** Empty the remaining contents into application equipment and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a 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 or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities. Do not cut or weld metal containers..

**Containers larger than 5 gallons:** Empty the remaining contents into application equipment. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll 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. If recycling is not available, puncture or dispose of in a sanitary-landfill or incineration or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Refillable Containers:** Return container to point of purchase for reuse with seal intact and in salable condition. Refill this container with Bifen 25% EC [alt. Brand Name] only. Do not reuse this container for any other purpose. Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices.

## Section 14: Transport Information

**PROPER SHIPPING NAME:** Pyrethroid pesticide, liquid, toxic (Bifenthrin)

**HAZARD CLASS OR DIVISION:** 6.1

**IDENTIFICATION NUMBER:** UN 3352

**PACKING GROUP:** PG III

**ADDITIONAL INFORMATION:** Severe Marine Pollutant

**U.S. SURFACE FREIGHT CLASSIFICATION:** INSECTICIDES OR FUNGICIDES, INSECT OR ANIMAL REPELLENTS, NOI, OR VERMIN EXTERMINATORS, ANIMAL OR POULTRY, NOI; POISON (NMFC 102100; CLASS: 77.5)

## 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:



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**WARNING.** May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Harmful if inhaled or absorbed through skin. Avoid breathing vapor or spray mist. Avoid contact with skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing 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:

Naphthalene (100 lbs.)

### SARA TITLE III STATUS:

- 302 Extremely Hazardous Substance:
- 311/312 Hazard Categories:

Not Listed  
Immediate health hazard  
Delayed health hazard  
Fire hazard

- 313 Toxic Chemicals:

Bifenthrin 25%; Napthalene 4%;  
Trimethylbenzene 1%

- California Proposition 65 Status:

Not Listed

### CA Proposition 65:

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.

**Original Date:** February 26, 2008

**Revised:** May 21, 2015