

MATERIAL SAFETY DATA SHEET

Prescription Treatment® brand Attain® Nursery Insecticide/Miticide Microemulsion

EMERGENCY PHONE NUMBERS:

MEDICAL: 800-225-3320 (Prosar)

TRANSPORTATION: 800-424-9300 (Chemtrec)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Prescription Treatment® brand Attain® Nursery Insecticide/Miticide Microemulsion
Product Code(s): 09-1830 (4 x 1 gal)
EPA Reg. No.: 53883-165-499
EPA Signal Word: CAUTION
Distributed by: Whitmire Micro-Gen Research Laboratories, Inc.
 3568 Tree Court Industrial Blvd.
 St. Louis MO 63122-6682

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION INFORMATION

ACTIVE INGREDIENT (7.9%)	%	CAS NO.
Bifenthrin	7.9	82657-04-3
OTHER INGREDIENTS* (92.1%)	%	CAS NO.
Glycerine	< 1.0	56-81-5

* All ingredients may not be listed. Ingredients not listed do not meet the reporting requirements of the OSHA Hazard Communication Standard (HCS) as specified in 29 CFR 1910.1200.

EXPOSURE INFORMATION

MATERIAL	OSHA PEL		ACGIH TLV	
	STEL	TWA	STEL	TWA
Bifenthrin	NE	NE	NE	NE
Glycerine	NE	10.0 mg/m ³	NE	10.0 mg/m ³

SECTION 3. HAZARDS IDENTIFICATION

NOTES 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 should be avoided.

SIGNS/SYMPTOMS OF EXPOSURE

Symptoms of overexposure include bleeding from the nose, tremors and convulsions. Contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hr.

ROUTES OF ENTRY

Primary: Skin **Secondary:** Ingestion **Tertiary:** Inhalation

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, carbon dioxide, chlorine, fluorine, hydrogen chloride and hydrogen fluoride.

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

Thermal decomposition and burning may form toxic by-products. Slightly combustible. This material may support combustion at elevated temperatures.

SECTION 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment. Describe any symptoms and follow the advice given.

Ingestion: 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.

Eye Contact: Hold eyes open and rinse slowly and gently with water for 15 - 20 min. Remove contact lenses, if present, after the first 5 min, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
Skin Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 min. Call a poison control center or doctor for treatment advice.

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.

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 should be avoided.

Medical Conditions Generally Aggravated by Exposure: None known

Emergency Telephone Number of Prosar: 800-225-3320 (for medical emergencies)

SECTION 5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION

Flash Point (TCC): >212°F

Flame Projection: NA

Explosibility Limits in Air (% by volume):

Lower (LEL) = NE

Upper (UEL) = NE

NFPA 30B Flammability: NA

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

Thermal decomposition and burning may form toxic by-products. Slightly combustible. This material may support combustion at elevated temperatures.

IN CASE OF FIRE

Extinguisher Media: Carbon Dioxide, Dry Chemical, Foam. Soft stream water fog only if necessary. Contain all runoff.

Special Fire Fighting Procedures: Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

SECTION 6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR LEAK

Isolate and post spill area. Wear protective clothing and personal protective equipment as described below. Keep unprotected persons and animals out of the area. Keep material out of lakes, streams, ponds and sewer drains. Dike to confine spill and absorb with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump waste into a drum and label contents for disposal. To clean and neutralize spill area, tools and equipment, wash with a suitable solution of caustic or soda ash, and an appropriate alcohol (i.e., methanol, ethanol or isopropanol). Follow this by washing with a strong soap and water solution. Absorb, as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary. Dispose of drummed waste according to the method outlined below.

This product contains no Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) listed chemicals. Releases of this product are NOT reportable to the National Response Center.

Emergency Telephone Number of Chemtrec: 800-424-9300 (for transportation spills)

PROTECTIVE EQUIPMENT FOR CLEANUP PERSONNEL

Eyes and Face: For splash, mist or spray exposure, wear chemical-protective goggles or a face shield.
Skin: Wear chemical-resistant gloves. Depending upon concentrations encountered, wear coveralls or long-sleeved shirt, long pants, shoes plus socks and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a PVC suit. Leather items - such as shoes, belts and watchbands - that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).

Inhalation: Use of a respirator may be appropriate when working with spills in enclosed or confined spaces, or when prolonged exposure to product vapor or spray mist may occur. When using a respirator, wear a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R or P prefilter. See 29 CFR 1910.134 for respiratory protection, training, and testing requirements.

Work Hygienic Practices: Clean water should be available for washing in case of eye or skin contamination. Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking. Shower at the end of the workday.

WASTE DISPOSAL METHOD

Do not contaminate water, food or feed by storage or disposal of wastes. Take full or leaking containers to a local disposal company for biological treatment or incineration. Review all local, state and federal regulations concerning health and pollution to determine approved disposal procedures. Open dumping or burning of this material or its packaging is prohibited. NEVER PLACE WASTES DOWN ANY INDOOR OR OUTDOOR DRAIN OR SEWER.

SECTION 7. HANDLING AND STORAGE

Hazards to Humans and Domestic Animals

Keep out of reach of children. **CAUTION** - Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

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 the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

OTHER PRECAUTIONS

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. Do not allow people or pets on treated surfaces until the spray has dried.

Storage

Do not contaminate water, food or feed. Store in a cool, dry area that is inaccessible to children, pets and other animals. Store concentrate only in the original container. Never put diluted or concentrated Attain Nursery in containers for food or beverages. When opening containers, take appropriate care to avoid spill. Securely replace lids after partial use.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hr.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Respiratory Protection: None required when used according to label directions. For prolonged exposure or if used in enclosed or confined areas, a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R or P prefilter may be used. See 29 CFR 1910.134 for respiratory protection, training and testing requirements.

Protective Gloves: Wear chemical-resistant gloves such as Barrier laminate, Butyl rubber, Nitrile rubber, Neoprene rubber, Polyvinyl chloride or Viton. (Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.)

Eye Protection: Use proper protection - safety glasses are recommended.

Other Protective Equipment: Long-sleeved shirt, long pants, socks and shoes.

MATERIAL SAFETY DATA SHEET

Prescription Treatment® brand Attain® Nursery Insecticide/Miticide Microemulsion

Restricted Entry Interval (REI): PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involve contact with anything that has been treated, such as plants, soil or water, is: Coveralls; chemical-resistant gloves such as Barrier laminate, Butyl rubber, Nitrile rubber, Neoprene rubber, Polyvinyl chloride or Viton; shoes plus socks.

VENTILATION

Local Exhaust: Required
Mechanical: None required
Special: None required
Other: Use local exhaust at all process locations where vapor or mist may be emitted. Ventilate all transport vehicles prior to unloading.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Eggshell white liquid
Solubility in Water: Disperses
Viscosity: NE
Boiling Point: NE
pH: 6.7
Odor: Mild chemical odor
Molecular Weight: 422.88 (bifenthrin)
Vapor Density: NE
Freezing/Melting Point: NE
Specific Gravity: 1.024 g/cm³ @ 68°F (water = 1)

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY

Stability: Stable
Conditions to Avoid: Excessive heat and fire
Incompatibility (Material to Avoid): No information available
Hazardous Polymerization: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, carbon dioxide, chlorine, fluorine, hydrogen chloride and hydrogen fluoride.

SECTION 11. TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY

Primary: Skin **Secondary:** Ingestion **Tertiary:** Inhalation

ACUTE

Eyes: Product produced minimal irritation.
Skin: Product was non-irritating when tested on rabbits. Acute dermal LD₅₀ > 2,000 mg/kg (rabbits).
Ingestion: Acute oral toxicity LD₅₀ > 500 mg/kg (rats).
Inhalation: Acute inhalation toxicity LC₅₀ > 10 mg/L/1 hr (rats).
Acute Effects From Overexposure: This product has moderate inhalation, and low oral and dermal toxicity. It is practically non-irritating to the eyes and non-irritating to the skin. Large doses of bifenthrin ingested by laboratory animals produced signs of toxicity including convulsions, tremors and bloody nasal discharge. Bifenthrin does not cause acute delayed neurotoxicity. Experience to date indicates that contact with Bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These sensations are reversible and usually subside within 12 hr.
Chronic Effects From Overexposure: No data available for the formulation. In studies with laboratory animals, bifenthrin did not cause reproductive toxicity or teratogenicity. Tremors were associated with repeated exposure of laboratory animals to Bifenthrin. In lifetime feeding studies conducted with rodents, a slight increase in the incidence of urinary bladder tumors at the highest dose in male mice was considered to be an equivocal response, not evidence of a clear compound-related effect. The overall absence of genotoxicity has been demonstrated in mutagenicity tests with Bifenthrin.

CHRONIC / CARCINOGENICITY

Neither this product nor any of its ingredients are classified as carcinogens by the American Conference of Governmental Industrial Hygienists (ACGIH), National Toxicity Program (NTP), the International Agency for Research on Cancer (IARC) or the Occupational Safety and Health Administration (OSHA).

SECTION 12. ECOLOGICAL INFORMATION

Unless otherwise indicated, the data presented below are for the active ingredient.

Environmental Data: In soil, bifenthrin is stable over a wide pH range and degrades at a slow rate which is governed by soil characteristics. Bifenthrin will also persist in aquatic sediments. Bifenthrin has a high Log Pow (> 6.0), a high affinity for organic matter, and is not mobile in soil. Therefore, there is little potential for movement into ground water. There is the potential for Bifenthrin to bioconcentrate (BCF = 11, 750).

Ecotoxicological Information: Bifenthrin is extremely toxic to fish and aquatic arthropods and LC₅₀ values range from 0.0038 to 17.8 µg/L. In general, the aquatic arthropods are the most sensitive species. Care should be taken to avoid contamination of the aquatic environment. Bifenthrin had no effect on mollusks at its limit of water solubility. Bifenthrin is only slightly toxic to both waterfowl and upland game birds (LD₅₀ values range from 1,800 mg/kg to > 2,150 mg/kg).

SECTION 13. DISPOSAL CONSIDERATION

Do not contaminate water, food or feed by disposal of container or waste. Dispose of container and waste in accordance with all federal, state and local regulations.

Container Disposal: Empty container by using the product in accordance with the label directions. Triple rinse (or equivalent). Then offer for recycling or reconditioning, 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. NEVER PLACE UNUSED PRODUCT DOWN ANY INDOOR OR OUTDOOR DRAIN OR SEWER.

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.

SECTION 14. TRANSPORT INFORMATION

SHIPMENT BY GROUND WITHIN U.S. (DOT CLASSIFICATION)

Not Regulated

Product in unopened original packaging is compliant with all regulations for ground shipment within the U.S. WMG disclaims any liability for claims or damages that may result from shipment by other means. Packages offered or intended for other modes of transportation are subject to additional requirements. Consult an appropriately trained shipping professional before offering for shipment.

SECTION 15. REGULATORY INFORMATION

CERCLA

This product contains no CERCLA listed chemicals.

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355)

Not listed

SARA TITLE III SECTION 311/312 HAZARD CLASS

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate (Acute) Health Hazard

Delayed (Chronic) Health Hazard

SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370)

The threshold planning quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs. This product contains the following ingredients with a TPQ of less than 10,000 lbs:

None

SARA TITLE III SECTION 313 CHEMICALS

This product contains the following substances subject to the reporting requirements of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and/or 40 CFR Part 372:

Bifenthrin (CAS #82657-04-3)

7.9% by weight

TSCA

All components of this product are listed or excluded from listing on the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

SECTION 16. OTHER INFORMATION

NFPA HEALTH RATING INFORMATION

HEALTH - 1 FLAMMABILITY - 1 REACTIVITY - 1

HMIS HAZARD RATING INFORMATION

HEALTH - 1 FLAMMABILITY - 1 REACTIVITY - 1

KEY:	4 = Severe
	3 = High
	2 = Moderate
	1 = Slight
	0 = Minimal

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. **For automatic MSDS updates, register at www.wmmg.com.**

Questions concerning the safe handling of the product should be referred to the Whitmire Micro-Gen Customer Service Department at 800-777-8570.

NA - Not Applicable
NE - Not Established
PEL - Permissible Exposure Limit
TLV - Threshold Limit Value
STEL - Short Term Exposure Limit (15 min)
TWA - Time Weighted Average (8 hr)



WHITMIRE MICRO-GEN
RESEARCH LABORATORIES, INC.

Effective Date: 04/25/07
Review Date: 04/25/07
Supersedes: 06/09/05
Code #: NA
Text ID: 070605-2
Part No.: 19-0216-02