

M A T E R I A L S A F E T Y D A T A S H E E T

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): 09-1833 (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%)

Glycerine	< 1.0	56-81-5
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* 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 has moderate inhalation, and low oral and dermal toxicity. It is practically nonirritating to the eyes and nonirritating to the skin. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Treatment is otherwise controlled by removal of exposure followed by symptomatic and supportive care.

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.

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: Drink 1 or 2 glasses of water and induce vomiting by touching the back of throat with a finger or by giving syrup of ipecac. Never induce vomiting or give anything by mouth to an unconscious person. Contact a medical doctor.

Eye Contact: Flush with plenty of water. Get medical attention if irritation occurs and persists.

Skin Contact: Wash with plenty of soap and water.

Inhalation: Move to fresh air. If breathing difficulty or discomfort occurs and persists, contact a medical doctor.

Note to Physician: This product has moderate inhalation, and low oral and dermal toxicity. It is practically nonirritating to the eyes and nonirritating to the skin. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

Medical Conditions Generally Aggravated by Exposure: None presently known

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

SECTION 5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION

Flash Point: > 100°C (> 212°F) (TCC)

Flammable Limits in Air (% by volume):

Lower (LEL) = NE

Upper (UEL) = NE

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: Foam, CO₂ or dry chemical. 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 noncombustible 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 protective gloves made of materials such as rubber, neoprene or PVC. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks. Depending upon concentrations encountered, wear coveralls or long sleeved uniform 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: For splash, mist or spray exposure wear, as a minimum, a properly fitted air purifying respirator with an organic vapor cartridge or canister with any R, P or HE pre-filter (approved by U.S. NIOSH/MSHA, EU CEN or comparable certification organization). Respirator use and selection must be based on airborne concentrations.

Work Hygienic Practices: Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking or using tobacco. Shower at the end of the workday.

WASTE DISPOSAL METHOD

Open dumping or burning of this material or its packaging is prohibited. If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations. However, because acceptable methods of disposal may vary by location and regulatory requirements may change, the appropriate agencies should be contacted prior to disposal.

SECTION 7. HANDLING AND STORAGE

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Keep out of reach of children and animals.

STORAGE

Store in a cool, dry, well ventilated place. Do not use or store near heat, open flame or hot surfaces. Store in original containers only. Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Respiratory Protection: For splash, mist or spray exposure wear, as a minimum, a properly fitted air purifying respirator with an organic vapor cartridge or canister with any R, P or HE pre-filter (approved by U.S. NIOSH/MSHA, EU CEN or comparable certification organization). Respirator use and selection must be based on airborne concentrations.

Protective Gloves: Wear chemical protective gloves made of materials such as rubber, neoprene or PVC. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

MATERIAL SAFETY DATA SHEET

Prescription Treatment® brand Attain® Nursery Insecticide/Miticide Microemulsion

Eye Protection: For splash, mist or spray exposure, wear chemical protective goggles or a face shield.

Other Protective Equipment: None required

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

pH: 6.7

Viscosity: NE

Boiling Point: NE

Solubility in Water: Disperses

Odor: Mild chemical odor

Molecular Weight: 422.88 (bifenthrin)

Vapor Density: NE

Freezing/Melting Point: NE

Specific Gravity: 1.024@20°C (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

Dermal LD₅₀: > 2,000 mg/kg (rabbit)

Oral LD₅₀: > 500 mg/kg (rat)

Inhalation LC₅₀: > 10 mg/L/1 hr (rat)

Acute Effects From Overexposure: This product has moderate inhalation, and low oral and dermal toxicity. It is practically nonirritating to the eyes and nonirritating 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.

CARCINOGENICITY

IARC: Not listed

NTP: Not listed

OSHA: Not listed

Other: Not Listed (ACGIH)

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 highly toxic to fish and aquatic arthropods and LC₅₀ values range from 0.0038 - 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 - > 2,150 mg/kg).

SECTION 13. DISPOSAL CONSIDERATION

Do not contaminate water, food or feed by disposal.

Disposal Method: Open dumping or burning of this material or its packaging is prohibited. If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations. However, because acceptable methods of disposal may vary by location and regulatory requirements may change, the appropriate agencies should be contacted prior to disposal.

Empty Container: Nonreturnable containers which held this material should be cleaned, prior to disposal, by triple rinsing. Containers which held this material may be cleaned by being triple rinsed, and recycled, with the rinsate being incinerated. Do not cut or weld metal containers. Vapors that form may create an explosion hazard.

SECTION 14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

Reportable Quantity (RQ): None

U.S. Surface Freight Class: Insecticides, NOI, other than Poison. NMFC Item 102120.

Marine Pollutant #1: Bifenthrin (Severe Marine Pollutant)

Other Shipping Information:

When shipped by highway, railroad or air, in packages < 119 gal/450 L in volume: Not regulated.

Non-bulk packages by water and bulk packages by highway, railroad or water, the material is Class 9: Environmentally hazardous substances, liquid, n.o.s. (Bifenthrin 7.9%), 9, UN3082, III. NAERG Guide 171.

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. Consult appropriately trained shipping professional before offering for shipment by water or air.

SECTION 15. REGULATORY INFORMATION

CERCLA

This product contains no CERCLA listed chemicals.

SARA TITLE III (SUPERFUND AMENDMENT AND REAUTHORIZATION ACT)

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): Not listed

SECTION 311 HAZARD CATEGORIES (40 CFR 370): Immediate, Delayed

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 < 10,000 lbs.: None.

SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372): This product contains the following ingredients subject to Section 313 reporting requirements: (Bifenthrin).

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 = Serious
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.

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