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Material Safety Data Sheet

Product Name: AzaMax™ Biological Insecticide, Miticide, and Nematicide

1. Product and Company Identification

AzaMax™ Biological Insecticide, Miticide, Nematicide acts as an insect anti-feedant, insect growth regulator (IGR), and insect repellent.

EPA Signal Word
CAUTION

Chemical Name
AZADIRACTIN

Chemical Class
BIOPESTICIDE

EPA Registration Number
71908-1-81268

Formulator:

PARRY AMERICA INC.
2740 Fulton Avenue
Suite 220
Sacramento, CA 95821
916-973-1351

Emergency Telephone Numbers:

Hazard Information Services (H.I.S.)
1-800-228-5635

CHEMTREC®
1-800-424-9300

2. Ingredients

Chemical Component	Percent Range	CAS Numbers	OSHA-PEL	ACGIH-TLV	NTP/IARC/OSHA CARCINOGEN	OTHER
AZADIRACTIN	1.2%	11141-17-6 95507-03-2	N/A	N/A	N/A	N/A
Other Ingredients	98.8%		N/A	N/A	N/A	N/A

3. Hazards Identification

Emergency Overview:

Physical Properties

Appearance: Brown, honey-colored liquid
Odor: Mild neem fragrance
Hazardous Decomposition Products: None Known
Unusual Fire, Explosion, and Reactivity Hazards: None Known

Potential Health Effects

Acute Effects: Harmful if absorbed through the skin
Symptoms of Acute Exposure: None Known
Chronic Effects: None Known
Carcinogenicity: None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

4. First Aid Measures

Primary Routes of Exposure:

Inhalation, Ingestion, Skin, and Eyes

Sign and Symptoms of Exposure:

Inhalation: May be irritating to mucous membranes and excessive exposure may result in drowsiness.
Ingestion: May cause drowsiness.
Skin Contact: May cause mild irritation.
Eye Contact: May cause mild irritation.

Emergency First Aid Procedure:

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. Get medical attention.
If Ingested: Induce vomiting by gastric lavage. Call a physician for medical advice.
If on Skin: Take off contaminated clothing. Wash skin with plenty of soap and water. Call a physician for medical advice.
If in Eyes: Hold eye open and rinse slowly & gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, and then continue rinsing eyes with excessive water. Call a physician for medical advice.

5. Fire Fighting Measures

Flash Point: >340°F Upper & Lower Flammable Limits: NK

Fire Extinguishing Media: CO₂, Dry Chemical, Foam
Special Fire Fighting Procedures: Evacuate personnel to a safe area. Wear positive-pressure breathing apparatus and full protective clothing. Fight fire from maximum distance. Stay up-wind and out of low areas.

6. Accidental Release Measures

Steps to be Taken if Material is Released or Spilled

General: Consult an expert on the disposal of recovered material. Ensure disposal is in compliance with government requirements and ensure conformity of local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.
Specific: Evacuate personnel, thoroughly ventilate area, and use self-contained breathing apparatus and protective clothing. Dike spill. Absorb spilled material with Dri-Rite, sawdust, sand, or other adsorbent material, taking care not to generate dust. Collect clean-up material into drums, cover, and label for disposal according to local regulations. Scrub contaminated area with detergent and water. Prevent liquid from entering sewers, waterways, or low areas. Product is not regulated under RCRA or CERCLA.

7. Handling and Storage

Precautions In Handling: Do not contaminate water, food, or feed by storage or disposal. Wash hands before eating, drinking, chewing gum, using tobacco products, or using the toilet. Remove clothing immediately if pesticide gets inside and then wash thoroughly and put on clean clothes.

Storage: Keep in tightly closed and original containers. Do not store this product above 105°F or below 32°F for extend periods of time. Best to keep in cool dry place and to avoid direct sunlight. Do not re-fill or re-use containers. Dispose of containers in an approved waste facility.

8. Exposure Controls/Personal Protection

Ventilation Requirements:

Thorough ventilation is recommended in case of accidental spillage.

Personal Protective Equipment:

Harmful if absorbed through skin or inhaled. Avoid breathing vapor. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Wash contaminated clothing before reuse.

Manufacturing and Packaging Employees:

Eye/Face: Wear chemical safety goggles
Skin Protection: Wear protect gloves
Respiratory Protection: Thorough ventilation is recommended in case of accidental spillage
Additional Information: Wash hands before eating, drinking, chewing gum, using tobacco products, or using the toilet. Remove clothing immediately if pesticide gets inside and then wash thoroughly and put on clean clothing.

Applicators and Handlers: Must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

9. Physical and Chemical Properties

Appearance: Brown, honey-colored liquid
Specific Gravity: 0.985 g/cm³ @ 18°C
Dispersion in Water: 100%
pH: 7.0 @ 18°C
Odor: Mild neem fragrance
Viscosity: 281.4 mm²/s @ 20°C

10. Stability and Reactivity

Stability: Stable at ordinary conditions of use and storage.
Incompatibility: Avoid acids, alkali or oxidizing agents.
Decomposition/By Products: No hazardous materials are produced.
Hazardous Polymerization: Does not occur.

11. Toxicological Information

Acute Toxicity/Irritation Studies:

Acute Oral: Rat LD₅₀ > 5,000mg/kg
Acute Dermal: Rat LD₅₀ > 2,000mg/kg
Acute Inhalation: Rat LD₅₀ > 5.4mg/l
Primary Eye Irritation: Rabbit - No irritation
Primary Skin Irritation: Rabbit - Mild irritation
Skin Sensitization: Guinea Pig - No sensitization

12. Ecological Information

Effect on Honeybees: Harmless
Effect on Earthworms: Harmless (>1,000mg/kg)
Effect on Predators: Harmless
Hazard to Soil Microflora: Non hazardous
Acute Fish Toxicity (Rainbow Trout): LC₅₀ = 440 mg/l (24 hours)
Acute Daphnia Immobilization: EC₅₀ > 50 mg/l
Algal Inhibition Test: Non inhibitory, non stimulant
Metabolism in Soil: Rapid decomposition in soil
Degradability in Water: Readily biodegradable in water

13. Disposal Considerations

Do not contaminate water, food, or feed by storage or disposal. Dispose of containers in an approved disposal facility - refer to product labeling. Open dumping is prohibited. Do not re-fill or re-use containers. Ensure compliance with Local, State, and Federal regulations. Do not flush to surface water or sanitary sewer systems.

14. Transportation Information

DOT Classification: Not regulated
International Maritime Organization: Not regulated
International Civil Aviation Organization: Not regulated
Special Instructions: No special instruction on handling required
Flammability: Non flammable
Transport by Air: Safe for Air Transport

15. Regulatory Information

SARA Title III Classifications

Section 302/304 N/A
Section 311/312 N/A
Section 313 Chemical(s) N/A

Proposition 65
Not Applicable

CERCLA Reportable Quantity (RQ)
Not Applicable

RCRA Classification

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA Status
Not Applicable

16. Other Information

NFPA Hazard Ratings

Health: 1
Flammability: 1
Reactivity: 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Prepared by: PARRY AMERICA INC.

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