



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Formulator: Gowan Company
P.O. Box 5569
Yuma, Arizona 85366-5569
(928) 783-8844

Emergency Phone: (928) 783-3803
For 24-Hour Emergency Assistance (Spill, Leak, Fire, or Exposure), Call CHEMTREC®:

Inside the U.S.: (800) 424-9300
Outside the U.S.: (703) 527-3887
(888) 478-0798

For MEDICAL Emergency:

Product: AZAHAR™
EPA Signal Word: CAUTION
Active Ingredient: Azadirachtin 1.2(%)
Chemical Name: Azadirachtin
Chemical Class: Biopesticide

EPA Registration No.: 71908-1-10163

CAS No.: 11141-17-6

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This product is a brown viscous liquid intended for use as a pesticide to control insects on agricultural crops. This product should pose no health concerns through normal use in accordance with label directions.

Physical Properties

Appearance: Brown viscous liquid

Odor: Mild odor

Symptoms of Acute Exposure: None known

Primary Routes of Exposure: Inhalation, ingestion, eyes, and skin.

Medical Conditions Likely to be Aggravated by Exposure: None known

Hazardous Decomposition Products: None known.

Unusual Fire, Explosion, and Reactivity Hazards: None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	OSHA – PEL	ACGIH – TLV	OTHER	NTP/IARC/OSHA CARCINOGEN
Azadirachtin 1.2 (%)	N/A	N/A	N/A	N/A

Only the identities of the active ingredient(s) and any *hazardous* inert ingredients are listed. Specific information on all of this product's ingredients can be obtained by the treating medical professional or spill emergency responder for the management of exposures, spills, or safety assessments.

4. FIRST AID MEASURES

Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes. 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 poison control center or doctor for further treatment advice.

4. FIRST AID MEASURES (continued)

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 a poison control center or a doctor.

Skin Contact: 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.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE: (888) 478-0798

5. FIRE FIGHTING MEASURES

Flashpoint (test method): >200°F

Fire Fighting Guidance: Will support combustion

6. ACCIDENTAL RELEASE MEASURES

In Case of Spills or Leaks

Flush the area with water. Do not allow water to contaminate surrounding area. Personnel in operation may wear protective clothing.

7. HANDLING AND STORAGE

Precautions in Handling: 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.

Storage: Do not contaminate water, food, or feed by storage or disposal. Do not reuse container. Do not store this product above 105°F or below 32°F for extended periods of time. Keep in tightly closed and original containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 protective gloves.

Respiratory Protection Thorough ventilation is recommended in case of accidental spillage.

Additional Protection Information

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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown viscous liquid

Melting Point: >160°C for technical grade product

Boiling Point: N/A

Specific Gravity/

Density: 0.98

Solubility in H₂O

Active Ingredient – Emulsifies with water

Vapor Pressure

Active Ingredient – 3.6×10^{-11} (hpa) for Azadirachtin A

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Oral:	Rat LD ₅₀ >5g/kg
Dermal:	Rat LD ₅₀ >2g/kg
Inhalation:	Rat LC ₅₀ >5.4 mg/L
Primary Eye Irritation:	Rabbit >No irritation
Primary Skin Irritation:	Rabbit >Mild
Skin Sensitization:	Guinea Pig >No sensitization

Mutagenic Potential Non mutagenic

Reproductive Hazard Potential NOAEL 5000 mg/kg

Chronic/Subchronic Toxicity Studies

Carcinogenic Potential Non carcinogenic

12. ECOLOGICAL INFORMATION

This pesticide 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 when cleaning equipment or disposing of equipment washwaters or rinsate.

13. DISPOSAL CONSIDERATION

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal:

Metal – Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

Plastic – Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Glass – Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved State and local procedures.

Hazardous Information: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse container.

14. TRANSPORT INFORMATION

DOT Classification

Not regulated.

International Maritime Organization

Not regulated.

International Civil Aviation Organization

Not regulated.

15. REGULATORY INFORMATION

SARA Title III Classification

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:

Gowan Company
(928) 783-8844

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