

#### MATERIAL SAFETY DATA SHEET

# 1. PRODUCT AND COMPANY IDENTIFICATION

Formulator: Gowan Company Emergency Phone: (928) 783-3803

P.O. Box 5569 For 24-Hour Emergency
Yuma, Arizona 85366-5569 Assistance (Spill, Leak, Fire, or

(928) 783-8844 Exposure), Call CHEMTREC<sup>®</sup>:

Exposure), Call CHEMTREC<sup>®</sup>: Inside the U.S.: (800) 424-9300 Outside the U.S.: (703) 527-3887

For *MEDICAL* Emergency: (888) 478-0798

Product: Aza-Direct® Biological Insecticide

**EPA Signal Word:** CAUTION **EPA Registration No.:** 71908-1-10163 **Active Ingredient:** Azadirachtin 1.2(%) **CAS No.:** 11141-17-6

Chemical Name: Azadirachtin
Chemical Class: Biopesticide

### 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
Active Ingredient 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.

# 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

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

## 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.

#### 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.

### PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown viscous liquid

**Melting Point:** >160°C for technical grade product

**Boiling Point:** N/A

Specific Gravity/

0.98

Density:

Solubility in H<sub>2</sub>0

Active Ingredient - Emulsifies with water

**Vapor Pressure** 

Active Ingredient – 3.6 10<sup>-11</sup> (hpa) for Azadirachtin A

### 10. STABILITY AND REACTIVITY

Stability: Stable

**Hazardous** 

Polymerization: Will not occur

#### 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicity/Irritation Studies**

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 0 Least Flammability: 1 1 Slight 2 Reactivity: 0 Moderate 3 High 4 Severe

#### Prepared By:

Gowan Company (928) 783-8844

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