

## 1 Identification

### · Product identifier

· **Trade name:** *Aza-Direct®*

· **Article number:** *US14022*

· **CAS Number:**

*EPA Registration No.: 71908-1-10163*

*Active Ingredient: Azadirachtin (1.2%), CAS:11141-17-6*

· **Application of the substance / the mixture** *Agricultural Insecticide*

### · Details of the supplier of the safety data sheet

· **Manufacturer/Supplier:**

*Gowan Company, LLC.*

*P.O. Box 5569*

*Yuma, Arizona 85366-5569*

*(928) 783-8844*

· **Information department:** *sds@gowanco.com*

· **Emergency telephone number:**

*Chemtrec® Emergency Telephone 24 - Hours: (Spills, leak or fire) Inside U.S. & Canada: (800) 424-9300*

*Outside the U.S. & Canada: +011 (703) 527-3887*

*For medical emergency (ProPharma Group®): (888) 478-0798*

## 2 Hazard(s) identification

### · Classification of the substance or mixture

*This SDS is based on classification according to US OSHA Hazard Communication Standard (29 CFR 1910.1200)*



*Acute Toxicity - Oral 4 H302 Harmful if swallowed.*

### · Label elements

· **GHS label elements**

*The product is classified and labeled according to the Globally Harmonized System (GHS).*

· **Hazard pictograms**



GHS07

· **Signal word**

*(US. EPA) CAUTION*

*Warning*

· **Hazard statements**

*H302 Harmful if swallowed.*

· **Precautionary statements**

*P264 Wash thoroughly after handling.*

*P270 Do not eat, drink or smoke when using this product.*

*P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.*

*P330 Rinse mouth.*

*P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

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Trade name: **Aza-Direct®**

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- **Hazard description:**

*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.*

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



- **HAZARD INDEX:**

4 Severe Hazard  
 3 Serious Hazard  
 2 Moderate Hazard  
 1 Slight Hazard  
 0 Minimal Hazard

- **Other hazards** Not applicable

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable in US.
- **vPvB:** Not applicable in US.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures

- **Description:**

*None of the components are considered hazardous material under US OSHA Hazard Communication Standard (29 CFR 1910.1200)*

- **Dangerous components:** Void

### 4 First-aid measures

- **Description of first aid measures**

- **General information:**

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

- **After 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.

- **After skin contact:**

- 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.

- **After 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.

- **After swallowing:**

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.

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- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.
- **Information for doctor:**
  - Most important symptoms and effects, both acute and delayed Unknown
  - Indication of any immediate medical attention and special treatment needed None

## 5 Fire-fighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
  - **Protective equipment:** Wear self-contained respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**  
No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· <b>PAC-1:</b>
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None of the ingredients are listed.
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· <b>PAC-2:</b>
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None of the ingredients are listed.
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· <b>PAC-3:</b>
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None of the ingredients are listed.
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## 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**  
Keep receptacle tightly sealed.  
Harmful if swallowed, absorbed through skin or if inhaled. Causes moderate eye irritation. Avoid breathing vapor. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse. Wear chemical resistant gloves.
  - **Information about protection against explosions and fires:** Protect from heat.

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- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
  - **Requirements to be met by storerooms and receptacles:**  
Store in a cool, dry place.  
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.
  - **Information about storage in one common storage facility:** Store away from foodstuffs.
  - **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** Not applicable.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** Not applicable; see item 7 Handling and storage.
- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - **Additional information:**  
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.
- **Exposure controls**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:**  
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.
    - **Breathing equipment:** Not necessary if room is well-ventilated.
    - **Protection of hands:**



Protective gloves

- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

- **Body protection:**  
Protective work clothing  
Applicators and other handlers must wear:
  - Long sleeved shirt and long pants
  - Chemical resistant gloves
  - Shoes plus socks

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## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

##### · Appearance:

##### · Form:

Liquid

##### · Color:

Brown

##### · Odor:

characteristic neem odor

##### · Odor threshold:

Not determined.

##### · pH-value:

7 +-0.20

#### · Change in condition

##### · Melting point/Melting range:

&gt;160 °C (&gt;320 °F)

##### · Boiling point/Boiling range:

Undetermined.

##### · Flash point:

&gt;171 °C (&gt;339.8 °F)

##### · Flammability (solid, gaseous):

Not applicable.

##### · Decomposition temperature:

Not determined.

##### · Auto igniting:

Product is not self-igniting.

##### · Danger of explosion:

Product does not present an explosion hazard.

#### · Explosion limits:

##### · Lower:

Not determined.

##### · Upper:

Not determined.

##### · Vapor pressure:

Not determined.

##### · Density at 20 °C (68 °F):

0.985 g/cm<sup>3</sup> (8.21983 lbs/gal)

##### · Relative density

Not determined.

##### · Vapor density

Not determined.

##### · Evaporation rate

Not determined.

#### · Solubility in / Miscibility with

##### · Water:

Dispersible.

##### · Partition coefficient (n-octanol/water):

Not determined.

#### · Viscosity:

##### · Dynamic:

Not determined.

##### · Kinematic:

Not determined.

#### · Other information

No further relevant information available.

## 10 Stability and reactivity

· **Reactivity** No further relevant information available.

· **Chemical stability** Stable under normal conditions

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known.

· **Conditions to avoid**

High temperature or direct exposure to sunlight or light may increase the rate of degradation.

· **Incompatible materials:** Not applicable.

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· **Hazardous decomposition products:** No dangerous decomposition products known to be formed.

## 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>5.4 mg/l (rat)

· **Primary irritant effect:**

· **on the skin:** Mild irritation

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:** Harmful

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

· **NTP (National Toxicology Program)**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

## 12 Ecological information

· **Toxicity**

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.

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:** Not hazardous for water.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

· **Uncleaned packagings:**

· **Recommendation:**

Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank and drain for 10 seconds after flow begins to drip. Fill container ¼ full with water and recap. Shake 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times.

## 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· DOT, ADR, IMDG, IATA</li> <li>· ADN</li> </ul>	<p style="margin: 0;">Void</p> <p style="margin: 0;">Not regulated</p>
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>	<p style="margin: 0;">Void</p>
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· DOT, ADR, IMDG, IATA</li> <li>· Class</li> <li>· ADN/R Class:</li> </ul>	<p style="margin: 0;">Void</p> <p style="margin: 0;">Not regulated</p>
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>	<p style="margin: 0;">Void</p>
<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> <li>· Marine pollutant:</li> </ul>	<p style="margin: 0;">No</p>
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> </ul>	<p style="margin: 0;">Not applicable</p>
<ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	<p style="margin: 0;">Not applicable</p>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	<p style="margin: 0;">Void</p>

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Marketing authorization number:**

· **SARA Title III**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act):**

None of the ingredients are listed.

· **Hazardous Air Pollutants**

None of the ingredients are listed.

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· **Proposition 65**· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenicity categories**· **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

· **TLV (Threshold Limit Value)**

None of the ingredients are listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

· **GHS label elements**

Not applicable

· **Hazard pictograms**

Not applicable

· **Signal word**

(US EPA) CAUTION

· **Hazard statements**

H302 Harmful if swallowed.

· **Precautionary statements**

HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Notice: The information and recommendations contained herein are provided in good faith and 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 herein.

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**Trade name: Aza-Direct®**

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· **Department issuing SDS:** Systems Design and Control

· **Contact:** sds@gowanco.com

· **Date of preparation / last revision** 09/28/2022

· **Abbreviations and acronyms:**

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*NIOSH: National Institute for Occupational Safety*

*OSHA: Occupational Safety & Health*

*TLV: Threshold Limit Value*

*PEL: Permissible Exposure Limit*

*REL: Recommended Exposure Limit*

*Acute Toxicity - Oral 4: Acute toxicity – Category 4*

· **Sources** Aza-Direct® is a registered trademark of Gowan Company LLC.

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