

Reviewed on 06/30/2015

1 Identification

- · Product identifier
 - Trade name: Aza-Direct® Botanical Insecticide EPA Registration No.: 71908-1-10163
 - · CAS Number: Active Ingredient: Azadirachtin (1.2%), CAS:11141-17-6
 - · Relevant identified uses of the substance or mixture and uses advised against

Antifeedant, repellant and insect growth regulator

- · Sector of Use Agriculture use
- · Application of the substance / the mixture Agricultural Insecticide
- · Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

Gowan Company 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 (Prosar®): (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 Tox. 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:

Warning

· Hazard statements

Harmful if swallowed.

· Precautionary statements

Wash thoroughly after handling.

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

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

Rinse mouth.

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

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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)



Health = 1 Fire = 1Reactivity = 0

HAZARD INDEX:

- 4 Severe Hazard
- 3 Serious Hazard
- 2 Moderate Hazard
- 1 Slight Hazard
- 0 Minimal Hazard
- · HMIS-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.

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• 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.
- 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:

CO2, 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.

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:

The usual precautionary measures for handling chemicals should be followed.

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

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Shoes plus socks

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Physical and chemical propert	ies	
Information on basic physical and cl General Information	nemicai properties	
· Appearance:		
· Form:	Liquid	
· Color:	Brown	
· Odor:	characteristic neem odor	
· Odour threshold:	Not determined.	
· pH-value:	7 +-0.20	
· Change in condition		
Melting point/Melting range:	>160 °C (>320 °F)	
· Boiling point/Boiling range:	Undetermined.	
· Flash point:	>171 °C (>340 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:		
· 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):	$0.985 \ g/cm^3 \ (8.22 \ lbs/gal)$	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· Water:	Emulsifiable.	
· Partition coefficient (n-octanol/wa	tter): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
· Kinematic:	Not determined.	
Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity
 - · 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.

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· Conditions to avoid

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

- · Incompatible materials: Not applicable.
- · Hazardous decomposition products: No dangerous decomposition products known to be formed.

11 Toxicological information

- · Information on toxicological effects
 - · Acute toxicity:

Oral	LD50	> 5000 mg/kg (rat)
		>2000 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:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· 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.
- · Results of PBT and vPvB assessment
 - · **PBT**: Not applicable.
 - · vPvB: Not applicable.

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

- · Uncleaned packagings:
 - · Recommendation:

Disposal must be made according to official regulations.

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.

UN-Number · DOT, ADR, ADN, IMDG, IATA	Not regulated	
UN proper shipping name · ADR	Not regulated	
Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Not regulated	
Packing group · ADR, IMDG, IATA	Not regulated	
Environmental hazards: · Marine pollutant:	No	
Special precautions for user	Not applicable	
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	II of Not applicable	
UN "Model Regulation":	Not regulated	

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture · SARA Title III

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

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· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

None of the ingredients are listed.

· 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 established by ACGIH)

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

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

· Hazard pictograms:

Not applicable

· Signal word:

(US EPA) CAUTION

· Hazard statements

Harmful if swallowed.

· Precautionary statements

HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

Wash thoroughly after handling.

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

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

Rinse mouth.

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

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

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16 Other information

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.

- · Department issuing SDS: Supply Chain
- · Contact: sds@gowanco.com
 - · Date of preparation / last revision 06/30/2015 / 1
 - · Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

ACGIH: American Conference of Governmental Industrial Hygienists

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) HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

- · Sources Aza-Direct® is a registered trademark of Gowan Company LLC.
- * * Data compared to the previous version altered.

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