


Form #:	SDS-057
Revision Date:	12/26/2018
Revision #:	03
Supersedes Date:	3/1/2016

Section 1: Identification			
Product Name:	AzaGuard®	Product Type / Description:	Botanical Based Insecticide / Nematicide
Recommended Use:	Insecticide / Pesticide	Other Means of Identification:	Proprietary Azadirachtin Blend
Use Restrictions:	It is a violation of federal law to use this product in a manner inconsistent with its labeling.		
Manufacturer:	BioSafe Systems, LLC 22 Meadow Street   East Hartford, CT 06108	EPA Registration #:	70299-17
Telephone Number:	1-888-273-3088	Emergency Number: 1-800-424-9300 (CHEMTREC)	

Section 2: Hazard Identification	
GHS Classification	Hazard Statements
Skin Sensitivity: Category 1A	H317: May cause an allergic skin reaction.
Pictograms	Signal Word
	<b>WARNING</b>
Precautionary Statements	
General	Response
P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read label before use.	P302+P352: IF ON SKIN: Wash with plenty of soap and water. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P391: Collect spillage.
Prevention	Storage / Disposal
P264: Wash thoroughly after handling. P280: Wear protective gloves, clothing, eye protection, face protection.	P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition / Information on Ingredients		
Components	CAS-No	% Composition (w/w)
Azadirachtin	11141-17-6	3.0%
Proprietary Blend of Other Ingredients		97.0%

Section 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 the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
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.
Ingestion:	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.
Inhalation:	Move person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

Section 5: Fire-Fighting Measures	
Suitable Extinguishing Media:	Water spray, dry chemical, alcohol foam, or carbon dioxide.
Unsuitable Extinguishing Media:	None.
Combustion Products:	None.
Unusual Fire and Explosion Hazards:	None.
Protective Equipment for Firefighters:	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Section 6: Accidental Release Measures	
Personal Precautions:	Wear personal protection equipment against potential contact with the spilled product when working on stopping the release/repairing the leak.

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<b>Emergency Procedures:</b>	Remove persons not wearing protective clothing from spill area.
<b>Environmental Precautions:</b>	Protect streams and sewers from contamination.
<b>Methods and Material for Containment and Clean-Up:</b>	Cover with absorbent (clay, sawdust, straw, sand, etc) to absorb the liquid. Sweep into an open drum. Clean the area with common detergent and water. Absorb and sweep into the same open drum. Rinse with water, absorb, and add to the waste drum.

### Section 7: Handling and Storage

<b>Handling:</b>	Wear personal protective equipment to avoid inhalation, contact with skin and eyes. Remove clothing immediately if product gets inside, then clean thoroughly and put on clean clothing.
<b>Storage:</b>	Keep product tightly sealed in original container. Store in ambient conditions (50-95°F / 10-35°C), away from food, feed, fertilizers, or seeds. Keep out of direct sunlight and away from heat or flame sources. Do not allow to freeze.
<b>Incompatible Materials:</b>	None known.

### Section 8: Exposure Controls / Personal Protection

#### Components with Workplace Control Parameters

Component	ACGIH	NIOSH	OSHA
Azadirachtin	Not applicable.	Not applicable.	Not applicable.
<b>Engineering Controls:</b>	Adequate ventilation.		
<b>General Hygienic Practices:</b>	Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.		
<b>Personal Protective Equipment:</b>	Protective clothing, safety glasses, gloves.		
<b>Respiratory Protection:</b>	None needed during normal use.		
<b>Eye / Face Protection:</b>	Safety glasses / goggles.		
<b>Hands:</b>	Latex or nitrile gloves.		
<b>Skin / Body:</b>	Wear suitable protective clothing.		

### Section 9: Physical and Chemical Properties

<b>Appearance:</b>	Clear brown liquid.	<b>Odor:</b>	Slightly garlic.	<b>Odor Threshold:</b>	Not available.
<b>pH:</b>	5.3	<b>Specific Gravity:</b>	1.06 g/cm <sup>3</sup>	<b>Viscosity:</b>	Not available.
<b>Melting Point:</b>	Not available.	<b>Freezing Point:</b>	Not available.	<b>Boiling Point:</b>	334°F (178°C)
<b>Flash Point:</b>	>200°F (100°C).	<b>Flammability:</b>	Not available.	<b>Flammability Limits:</b>	Not available.
<b>Vapor Pressure:</b>	0.20 mm Hg.	<b>Vapor Density:</b>	Not available.	<b>Solubility:</b>	Complete in water.
<b>Evaporation Rate:</b>	Not available.	<b>Auto-Ignition Temperature:</b>	Not available.	<b>Decomposition Temperature:</b>	Not available.
<b>Relative Density:</b>	Not available.	<b>Partition Coefficient n-octanol / water:</b>	Not available.		

### Section 10: Stability and Reactivity

<b>Stability:</b>	Stable under ordinary conditions of use and storage.
<b>Conditions to Avoid:</b>	Avoid high temperatures (>86°F), UV light, and humidity.
<b>Incompatible Materials:</b>	None known.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition will produce oxides of carbon, nitrogen, etc.

### Section 11: Toxicological Information

#### Acute Toxicological Data

<b>Oral LD50:</b>	> 5000mg/kg (rat)	<b>Dermal LD50:</b>	5050mg/kg (rabbit)	<b>Inhalation LC50:</b>	>2.45 mg/L.
<b>Likely Routes of Exposure:</b>	Skin contact.				
<b>Symptoms and Effects</b>					
<b>Condition</b>	<b>Acute Effects</b>			<b>Chronic (Delayed) Effects</b>	
<b>Eye Contact:</b>	May cause moderate eye irritation.			None.	
<b>Skin Contact:</b>	May cause mild irritation.			None.	
<b>Inhalation:</b>	May cause respiratory tract irritation.			None.	
<b>Ingestion:</b>	May be harmful if swallowed.			None.	

### Section 12: Ecological Information

<b>Ecotoxicity:</b>	Not expected to cause ecological issues. Uncontrolled releases should be avoided.
<b>Persistence and Degradability:</b>	Exhibits rapid degradation and low persistence in soil.
<b>Bioaccumulation Potential:</b>	None.
<b>Mobility in Soil:</b>	Not applicable.
<b>Other Adverse Effects:</b>	Not applicable.

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### Section 13: Disposal Considerations

<b>Waste from Residues and Unused Product:</b>	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility
<b>Contaminated Container Disposal:</b>	Do not reuse or refill this container. Triple rinse empty containers with clean water. Clean and empty containers are to be recycled or placed in the trash.

### Section 14: Transport Information

UN Number	UN Proper Shipping Name	Hazard Class (Subsidiary)	Label (Subsidiary)	Packing Group	Marine Pollutant
Not Regulated					

### Section 15: Regulatory Information

<b>TSCA Inventory List:</b>	No	<b>US EPA CERCLA Hazardous Substances:</b>	Not applicable.		
<b>SARA Title III Sec. 302/303</b>	Not applicable.		<b>Sec. 302 TPQ:</b>	Not applicable.	
<b>SARA Title III Sec. 311/312</b>	Not applicable.		<b>Hazard Category:</b>	Not applicable.	
<b>US EPA EPCRA Sec. 313</b>	Not applicable.		<b>Threshold Qty:</b>	Not applicable.	
<b>NFPA Rating</b>	<b>Health:</b> 1	<b>Flammability:</b> 0	<b>Reactivity:</b> 0	<b>Special:</b>	Not applicable.
<b>HMIS Rating</b>	<b>Health:</b> 1	<b>Flammability:</b> 0	<b>Physical:</b> 0	<b>PPE:</b>	Recommended.
<b>CAN WHMIS Classification</b>	None.				
<b>California Prop 65</b>	This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.				
<b>EPA</b>	This product is a registered Pesticide with the United States Environmental Protection Agency and is subject to EPA labeling requirements under the Federal Insecticide, Fungicide, and Rodenticide Act ("FIFRA"). These requirements may differ from the classification criteria and hazard information required for a safety data sheet under the Global Harmonized Systems (GHS), and for workplace labels of non-pesticides chemicals. It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Always refer to product label for further precautionary information and use directions.				


### Section 16: Other Information

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

To the extent of our knowledge, the information herein is accurate as of the date of this document. However, neither BioSafe Systems nor any of its affiliates make any warranty, expressed or implied, or accept any liability relating to the information or its use. The information is for use by technically skilled persons at their own discretion and risk. This is not a license or a patent. The user alone must finally determine suitability of any information or material for any contemplated use, the manner or use and whether any patents are infringed. Always read and follow label directions.

For additional information, call us toll-free at 1.888.273.3088 or visit [www.biosafesystems.com](http://www.biosafesystems.com)

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Revision Date: 12/26/2018  
Current Revision Number: 03



### Key to Abbreviations

ACGIH - American Conference of Governmental Industrial Hygiene	TWA - Time-Weighted Averages are based on 8h/day, 40h/week exposures
NIOSH - National Institute of Occupational Safety and Health	STEL - Short Term Exposure Limits are based on 15-minute exposures
OSHA - Occupational Safety and Health Administration	STEV - Short Term Exposure Value
EHS - Environmental Health and Safety	PEL - Permissible Exposure Limit
DOT - Department of Transportation	CAN TDG - Canadian Transportation of Dangerous Goods
EPA - Environmental Protection Agency	TSCA - Toxic Substances Control Act
TPQ - Threshold Planning Quantity	RQ - Reportable Quantity
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act	SARA - Superfund Amendments and Reauthorization Act
NFPA - National Fire Protection Association	HMIS - Hazardous Materials Identification System
WHMIS - Workplace Hazardous Materials Information System (Canada)	EPCRA - Emergency Planning and Community Right-to-Know Act