SAFETY DATA SHEET (SDS)

AzaGuard®

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
Skin Sensitivity: Category 1A
Hazard Statements
H317: May cause an allergic skin reaction.

Pictograms

Signal Word
WARNING

Precautionary Statements

General
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
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.

Storage / Disposal

Section 3: Composition / Information on Ingredients

Components
Azadirachtin
Proprietary Blend of Other Ingredients
CAS-No
11141-17-6
% Composition (w/w)
3.0%
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 spilt product when working on stopping the release/repairing the leak.
**Emergency Procedures:** Remove persons not wearing protective clothing from spill area.

**Environmental Precautions:** Protect streams and sewers from contamination.

**Methods and Material for Containment and Clean-Up:** 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**

**Handling:** 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.

**Storage:** 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.

**Incompatible Materials:** None known.

**Section 8: Exposure Controls / Personal Protection**

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azadirachtin</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

**Engineering Controls:** Adequate ventilation.

**General Hygienic Practices:** Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Personal Protective Equipment:** Protective clothing, safety glasses, gloves.

**Respiratory Protection:** None needed during normal use.

**Eye / Face Protection:** Safety glasses / goggles.

**Hands:** Latex or nitrile gloves.

**Skin / Body:** Wear suitable protective clothing.

**Section 9: Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear brown liquid.</td>
</tr>
<tr>
<td>Odor</td>
<td>Slightly garlic.</td>
</tr>
<tr>
<td>pH</td>
<td>5.3</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.06 g/cm^3</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt;200°F (100°C).</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>0.20 mm Hg.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability Limits</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>334°F (178°C)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Complete in water.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Partition Coefficient n-octanol / water</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative Density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Stability</td>
<td>Stable under ordinary conditions of use and storage.</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Avoid high temperatures (&gt;86°F), UV light, and humidity.</td>
</tr>
<tr>
<td>Incompatible Materials</td>
<td>None known.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Thermal decomposition will produce oxides of carbon, nitrogen, etc.</td>
</tr>
</tbody>
</table>

**Section 10: Stability and Reactivity**

**Acute Toxicological Data**

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>&gt; 5000 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>5050 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Inhalation LC50</td>
<td>&gt;2.45 mg/L.</td>
</tr>
</tbody>
</table>

**Likely Routes of Exposure:** Skin contact.

**Symptoms and Effects**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Acute Effects</th>
<th>Chronic (Delayed) Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Contact</td>
<td>May cause mild eye irritation.</td>
<td>None.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>May cause moderate eye irritation.</td>
<td>None.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>May cause respiratory tract irritation.</td>
<td>None.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May cause harmful if swallowed.</td>
<td>None.</td>
</tr>
</tbody>
</table>

**Ecotoxicity:** Not expected to cause ecological issues. Uncontrolled releases should be avoided.

**Persistence and Degradability:** Exhibits rapid degradation and low persistence in soil.

**Bioaccumulation Potential:** None.

**Mobility in Soil:** Not applicable.

**Other Adverse Effects:** Not applicable.
SAFETY DATA SHEET (SDS)
AzaGuard®

Section 13: Disposal Considerations

Waste from Residues and Unused Product:
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 or local authority requirements. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Contaminated Container Disposal: 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

<table>
<thead>
<tr>
<th>UN Number</th>
<th>UN Proper Shipping Name</th>
<th>Hazard Class (Subsidiary)</th>
<th>Label (Subsidiary)</th>
<th>Packing Group</th>
<th>Marine Pollutant</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Section 15: Regulatory Information

TSCA Inventory List: Not applicable.
SARA Title III Sec. 302/303: Not applicable.
SARA Title III Sec. 311/312: Not applicable.
US EPA EPCRA Sec. 313: Not applicable.
NFP Rating: Health: 1 Flammability: 0 Reactivity: 0 Special: Not applicable.
HMIS Rating: Health: 1 Flammability: 0 Physical: 0 PPE: Recommended.
CAN WHMIS Classification: California Prop 65: This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

EPA: 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
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For additional information, call us toll-free at 1.888.273.3088 or visit www.biosafesystems.com
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Current Revision Number: 03

Key to Abbreviations

ACGIH - American Conference of Governmental Industrial Hygiene
NIOSH - National Institute of Occupational Safety and Health
OSHA - Occupational Safety and Health Administration
EHS – Environmental Health and Safety
DOT – Department of Transportation
EPA – Environmental Protection Agency
TPQ – Threshold Planning Quantity
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act
NFPA – National Fire Protection Association
WHMIS – Workplace Hazardous Materials Information System (Canada)

TWA - Time-Weighted Averages are based on 8h/day, 40h/week exposures
STEL - Short Term Exposure Limits are based on 15-minute exposures
STEV - Short Term Exposure Value
PEL - Permissible Exposure Limit
CAN TDG – Canadian Transportation of Dangerous Goods
TSCA – Toxic Substances Control Act
RQ – Reportable Quantity
SARA – Superfund Amendments and Reauthorization Act
HMIS – Hazardous Materials Identification System
EPCRA – Emergency Planning and Community Right-to-Know Act