1. PRODUCT IDENTIFICATION

**Product Name:** ADVION COCKROACH BAIT ARENA  
**Product No.:** A20378A

**EPA Signal Word:** Caution

**Active Ingredient (%):** Indoxacarb (0.5%)

**Chemical Name:** methyl (4aS)-7-chloro-2,5-dihydro-2-[[methoxycarbonyl][4-(trifluoromethoxy)phenyl]amino]carbonyl]indenono[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate

**Chemical Class:** Insecticide

**EPA Registration Number(s):** 100-1486

**CAS No.:** 173584-44-6

**Syngenta Hazard Category:** C, S

**Section(s) Revised:** 4

2. HAZARDS IDENTIFICATION

**Health and Environmental**

May cause an allergic skin reaction.

**Hazardous Decomposition Products**

Not Available

**Physical Properties**

**Appearance:** Brown gel/paste

**Odor:** Characteristic/bland

**Unusual Fire, Explosion and Reactivity Hazards**

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Material</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other</th>
<th>NTP/IARC/OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inert Ingredients (99.5%)</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Indoxacarb (0.5%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>1 mg/m³ 8hr &amp; 12hr TWA (respirable) *</td>
<td>No</td>
</tr>
</tbody>
</table>

* recommended by manufacturer

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

Syngenta Hazard Category: C, S

4. FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

**Ingestion:** If swallowed: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
5. FIRE FIGHTING MEASURES

Fire and Explosion
- Flash Point (Test Method): Not Available
- Flammable Limits (% in Air): Lower: Not Applicable  Upper: Not Applicable
- Autoignition Temperature: Not Available
- Flammability: Not Available

Unusual Fire, Explosion and Reactivity Hazards
During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire
Use dry chemical, foam or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak
Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g., commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely use splash-proof chemical goggles.
11. TOXICOLOGICAL INFORMATION

Skin Contact: Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation: A respirator is not normally required when handling this substance.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Brown gel/paste</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic/bland</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Specific Gravity/Density</td>
<td>1.09 g/ml @ 72°F (22°C)</td>
</tr>
<tr>
<td>pH</td>
<td>6.6</td>
</tr>
<tr>
<td>Solubility in H2O</td>
<td>Indoxacarb: Not Available</td>
</tr>
<tr>
<td></td>
<td>Vapor Pressure</td>
</tr>
<tr>
<td></td>
<td>Indoxacarb: Not Available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Not Available

Materials to Avoid: Not Available

Hazardous Decomposition Products: Not Available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>Oral (LD50 Rat) : &gt; 5000 mg/kg body weight</td>
</tr>
<tr>
<td></td>
<td>Dermal (LD50 Rat) : &gt; 5000 mg/kg body weight</td>
</tr>
<tr>
<td></td>
<td>Inhalation (LC50 Rat) : Not Available</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Non-Irritating (Rabbit)</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>Non-Irritating (Rabbit)</td>
</tr>
<tr>
<td>Skin Sensitization</td>
<td>A skin sensitizer (Guinea Pig)</td>
</tr>
</tbody>
</table>

Reproductive/Developmental Effects

Indoxacarb: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity. Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Chronic/Subchronic Toxicity Studies

Indoxacarb: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Inhalation; rat: Incoordination, mortality, red blood cell destruction causing abnormal decrease in number of red blood cells (anemia)

Carcinogenicity

Indoxacarb: Animal testing did not show any carcinogenic effects.
Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Did not cause genetic damage in animals.

**Other Toxicity Information**
None

**Toxicity of Other Components**
Inert Ingredients (99.5%)
  Not Applicable

**Target Organs**
Active Ingredients
  Indoxacarb: Nervous system
Inert Ingredients
  Inert Ingredients: Not Applicable

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity Effects**
Indoxacarb:
  Fish (Rainbow Trout) 96-hour LC50 0.65 mg/l
  Bird (Bobwhite Quail) LD50 Oral 98 mg/kg
  Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.60 mg/l

**Environmental Fate**
Indoxacarb:
  Information given is based on data on the components and the ecotoxicology of similar products.
  Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

### 13. DISPOSAL CONSIDERATIONS

**Disposal**
Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable
Listed Waste: Not Applicable

### 14. TRANSPORT INFORMATION

**DOT Classification**
Ground Transport - NAFTA
  Not regulated.

**Comments**
  Water Transport - International
  Not regulated.
  Air Transport
  Not regulated.
15. REGULATORY INFORMATION

EPCRA SARA Title III Classification
Section 311/312 Hazard Classes: Acute Health Hazard
Section 313 Toxic Chemicals: Not Applicable

California Proposition 65
Not Applicable

CERCLA/SARA 304 Reportable Quantity (RQ)
Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261)
Not Applicable

TSCA Status
Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Hazard Ratings</th>
<th>HMIS Hazard Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health:</td>
<td>2</td>
</tr>
<tr>
<td>Flammability:</td>
<td>1</td>
</tr>
<tr>
<td>Instability:</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS Hazard Ratings

<table>
<thead>
<tr>
<th>Health:</th>
<th>Flammability:</th>
<th>Reactivity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 Minimal</td>
<td>1 Slight</td>
<td>2 Moderate</td>
</tr>
<tr>
<td>2 Serious</td>
<td>3 Serious</td>
<td>4 Extreme</td>
</tr>
</tbody>
</table>

For non-emergency questions about this product call:
1-800-334-9481

Original Issued Date: 5/1/2013
Revision Date: 11/1/2013
Replaces: 5/1/2013

The information and recommendations contained herein 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 contained herein.

End of MSDS