SAFETY DATA SHEET

ADVION COCKROACH GEL BAIT

SECTION 1. IDENTIFICATION

Product name: ADVION COCKROACH GEL BAIT
Design code: A20379A
Product Registration number: 100-1484

Manufacturer or supplier’s details
Company name of supplier: Syngenta Crop Protection, LLC
Address: Post Office Box 18300
Greensboro NC 27419
United States of America (USA)
Telephone: 1 800 334 9481
Telefax: 1 336 632 2192
Emergency telephone number: 1 800 888 8372

Recommended use of the chemical and restrictions on use
Recommended use: Insecticide
Restrictions on use: General Use Pesticide

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200
Skin sensitisation: Category 1

GHS label elements
Hazard pictograms: ⚠️
Signal word: Warning
Hazard statements: H317 May cause an allergic skin reaction.
Precautionary statements: Prevention:
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>starch</td>
<td>9005-25-8</td>
<td>=&gt; 5 - &lt; 10</td>
</tr>
<tr>
<td>sucrose, pure</td>
<td>57-50-1</td>
<td>=&gt; 5 - &lt; 10</td>
</tr>
<tr>
<td>Pyridine-3-carboxylic acid</td>
<td>59-67-6</td>
<td>=&gt; 5 - &lt; 10</td>
</tr>
<tr>
<td>3,4-Pyridinedimethanol, 5-hydroxy-6-</td>
<td>58-56-0</td>
<td>=&gt; 5 - &lt; 10</td>
</tr>
<tr>
<td>methyl-, hydrochloride</td>
<td></td>
<td></td>
</tr>
<tr>
<td>acetic acid</td>
<td>64-19-7</td>
<td>=&gt; 1 - &lt; 5</td>
</tr>
<tr>
<td>indoxacarb (ISO)</td>
<td>173584-44-6</td>
<td>0.6</td>
</tr>
</tbody>
</table>

Actual concentration is withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice:
Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.

If inhaled:
Move the victim to fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a physician or poison control centre immediately.

In case of skin contact:
Take off all contaminated clothing immediately.
Wash off immediately with plenty of water.
If skin irritation persists, call a physician.
Wash contaminated clothing before re-use.

In case of eye contact:
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses.
Immediate medical attention is required.

If swallowed:
If swallowed, seek medical advice immediately and show this container or label.
Do NOT induce vomiting.
Most important symptoms and effects, both acute and delayed:

- Nonspecific
- No symptoms known or expected.

Notes to physician:

- There is no specific antidote available.
- Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

**Suitable extinguishing media**
- Extinguishing media - small fires
  - Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
  - Extinguishing media - large fires
  - Alcohol-resistant foam

**Unsuitable extinguishing media**
- Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards during firefighting**
- As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).
- Exposure to decomposition products may be a hazard to health.
- Flash back possible over considerable distance.

**Further information**
- Do not allow run-off from fire fighting to enter drains or water courses.
- Cool closed containers exposed to fire with water spray.

**Special protective equipment for firefighters**
- Wear full protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**
- Refer to protective measures listed in sections 7 and 8.
- Avoid dust formation.

**Environmental precautions**
- Do not flush into surface water or sanitary sewer system.
- If the product contaminates rivers and lakes or drains inform respective authorities.

**Methods and materials for containment and cleaning up**
- Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).
- Do not create a powder cloud by using a brush or compressed air.
- Clean contaminated surface thoroughly.
- Clean with detergents. Avoid solvents.
- Retain and dispose of contaminated wash water.

SECTION 7. HANDLING AND STORAGE
Advice on safe handling: No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

Conditions for safe storage: No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>starch</td>
<td>9005-25-8</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable)</td>
<td>5 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (total)</td>
<td>10 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (total dust)</td>
<td>15 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (respirable fraction)</td>
<td>5 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td>sucrose, pure</td>
<td>57-50-1</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable)</td>
<td>5 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (total)</td>
<td>10 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (total dust)</td>
<td>15 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (respirable fraction)</td>
<td>5 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td>acetic acid</td>
<td>64-19-7</td>
<td>TWA</td>
<td>10 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>15 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>10 ppm (25 mg/m³)</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>15 ppm (37 mg/m³)</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td>indoxacarb (ISO)</td>
<td>173584-44-6</td>
<td>TWA</td>
<td>1 mg/m³ (Respirable dust)</td>
<td>Supplier</td>
</tr>
</tbody>
</table>

**Engineering measures:** THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Containment and/or segregation is the most reliable technical
protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

Personal protective equipment
Respiratory protection : No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection
Remarks : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The breakthrough time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : No special protective equipment required.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. Remove and wash contaminated clothing before re-use. Wear as appropriate: Dust impervious protective suit

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid
Colour : light brown

Odour : weak

Odour Threshold : No data available

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : > 212 °F / > 100 °C

Evaporation rate : No data available

flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 1 g/cm3

Solubility(ies) : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

---

SECTION 10. STABILITY AND REACTIVITY

Reactivity : None reasonably foreseeable.

Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: No decomposition if used as directed.

Incompatible materials: None known.

Hazardous decomposition products: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Ingestion
Inhalation
Skin contact
Eye contact

Acute toxicity

**Product:**
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity: LD50 (Rat): > 5,000 mg/kg

**Components:**
*indoxacarb (ISO):*
Acute oral toxicity: LD50 (Rat): 407 mg/kg
Acute inhalation toxicity: LC50 (Rat): > 5.5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity: LD50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation

**Product:**
Species: Rabbit
Result: No skin irritation

**Components:**
*acetic acid:*
Assessment: Corrosive

*indoxacarb (ISO):*
Species: Rabbit
Result: No skin irritation
Serious eye damage/eye irritation

**Product:**
Species: Rabbit
Result: No eye irritation

**Components:**

**Pyridine-3-carboxylic acid:**
Result: Eye irritation

**3,4-Pyridinedimethanol, 5-hydroxy-6-methyl-, hydrochloride:**
Result: Risk of serious damage to eyes.

**acetic acid:**
Assessment: Corrosive

**inoxcarb (ISO):**
Species: Rabbit
Result: No eye irritation

Respiratory or skin sensitisation

**Product:**
Species: Guinea pig
Result: May cause sensitisation by skin contact.

**Components:**

**inoxcarb (ISO):**
Result: The product is a skin sensitiser, sub-category 1B.

**Germ cell mutagenicity**

**Components:**

**acetic acid:**
Germ cell mutagenicity - Assessment: In vivo tests did not show mutagenic effects

**inoxcarb (ISO):**
Germ cell mutagenicity - Assessment: Animal testing did not show any mutagenic effects.

**Carcinogenicity**

**Components:**

**acetic acid:**
Carcinogenicity - Assessment: Animal testing did not show any carcinogenic effects.
ment

**indoxacarb (ISO):**
Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

**IARC**
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**
No component of this product present at levels greater than or equal to 0.1% is on OSHA’s list of regulated carcinogens.

**NTP**
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**
**Components:**

**acetic acid:**
Reproductive toxicity - Assessment : No information available.

**indoxacarb (ISO):**
Reproductive toxicity - Assessment : No toxicity to reproduction

**Further information**
**Components:**

**acetic acid:**
Remarks : If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
**Components:**

**indoxacarb (ISO):**
Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.65 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.6 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Lemna gibba (gibbous duckweed)): > 84.3 mg/l
Exposure time: 14 d

Toxicity to fish (Chronic tox- : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.15 mg/l
Exposure time: 90 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
- NOEC (Daphnia magna (Water flea)): 0.09 mg/l
  Exposure time: 21 d

Persistence and degradability

**Components:**

**Indoxacarb (ISO):**
- Biodegradability: Result: Not readily biodegradable.

Bioaccumulative potential

**Components:**

**Indoxacarb (ISO):**
- Bioaccumulation: Species: Lepomis macrochirus (Bluegill sunfish)
  Bioconcentration factor (BCF): 950.3
  Exposure time: 21 d

Mobility in soil

**Components:**

**Indoxacarb (ISO):**
- Distribution among environmental compartments: Remarks: No data available

Other adverse effects
No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues: Do not contaminate ponds, waterways or ditches with chemical or used container.
- Do not dispose of waste into sewer.
- Where possible recycling is preferred to disposal or incineration.
- If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents.
- Triple rinse containers.
- Empty containers should be taken to an approved waste handling site for recycling or disposal.
- Do not re-use empty containers.
SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

49 CFR
Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution
Harmful if swallowed.
Harmful if absorbed through skin.
Causes moderate eye irritation.
Avoid contact with skin, eyes or clothing.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetic acid</td>
<td>64-19-7</td>
<td>5000</td>
<td>*</td>
</tr>
<tr>
<td>dichloromethane</td>
<td>75-09-2</td>
<td>10</td>
<td>10 (F001)*</td>
</tr>
<tr>
<td>dichloromethane</td>
<td>75-09-2</td>
<td>10</td>
<td>10 (F002)*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards: Respiratory or skin sensitisation

SARA 313: The following components are subject to reporting levels established by SARA Title III, Section 313:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Reporting Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>cyanocobalamin</td>
<td>68-19-9</td>
<td>&gt;= 5 - &lt; 10 %</td>
</tr>
</tbody>
</table>

The components of this product are reported in the following inventories:
TSCA
: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

TSCA list
No substances are subject to a Significant New Use Rule.
No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:

HMIS® IV:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>/</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IECEx - International Electrotechnical Commission for Safety of Electromagnetic Compatibility of Electrical Equipment and Systems; IRESSMS - International Register of Safety Systems; LOC - Localized Incident; LOD - Localized Overexposure; LSI - Localized System Incident; MHS - Medium Hazardous Substance; NOS - Near Other Substance; OEL - Occupational Exposure Limit; OELx - Loading rate associated with x% response; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; PELx - Loading rate associated with x% response; Portuguese NT - No Tolerated Concentration; PSI - Permissible Scenarios Index; Polychlorinated Biphenyls; Pneum - Pneumonic; PNS - Permissible New Substance; PNSx - Loading rate associated with x% response; PTE - Permissible Take Home Exposure; PRSL - Pulmonary Reitanation Syndrome Limited; PRSLx - Loading rate associated with x% response; RNOP - Reimbursable Notifiable Offence Provision; SCOPE - Schedule of Control of Hazardous Substances; TIP - Tolerance; TWA - Time Weighted Average; USEPA - United States Environmental Protection Agency; VPL - Ventilation Permissible Limit; WSN -Warning System Number.
SAFETY DATA SHEET

ADVION COCKROACH GEL BAIT

Revision Date: 12/3/2019
SDS Number: I1495394686
This version replaces all previous versions.

System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 12/3/2019

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN