1. PRODUCT IDENTIFICATION

1.1. Product Identifiers
Product name: InVict™ AB Insect Paste

1.2. Other Means of Identification
Product synonyms: none

1.3. Recommended Uses/Restrictions to Use
Uses: 0.05% abamectin gel for control of various pest species per label
Restrictions: See product label for details

1.4. Supplier Details
Company: Rockwell Labs Ltd
1257 Bedford Avenue
North Kansas City, MO 64116-4308
USA

Telephone: 1 816-283-3167

1.5. Emergency Contact
Outside normal business hours
Emergency Phone #: 1 800-424-9300 (USA & Canada)
1 703-527-3887 (Outside USA & Canada)

2. HAZARDS IDENTIFICATION

2.1. Classification of Substance or Mixture
none

2.2. GHS label elements, including precautionary statements
Pictogram(s): none

Signal word: none

Hazard statement(s): none

Precautionary statement(s): none

2.3. Other hazards which do not result in classification
Abamectin is a neurotoxin that when consumed in sufficient quantities can have toxic effects up to and including death. This product contains a very low
3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Hazardous component(s) or components of note:

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Contains (% w/w)</th>
<th>CAS-No.</th>
<th>Hazard Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abamectin</td>
<td>0.05</td>
<td>71751-41-2</td>
<td>none</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice
Consult a physician or poison control center. Provide this safety data sheet to medical personnel. Move out of hazardous areas.

If inhaled
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. Call a poison control center or doctor for further treatment advice.

In case of 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.

In case of 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.

If swallowed
Call a poison control center or doctor 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.

4.2. Most important symptoms and effects, both acute and delayed

Abamectin may cause dilation of pupils, muscular incoordination, and muscular tremors with ingestion of more than an incidental amount.

4.3. Indication of any immediate medical attention and special treatment needed, if necessary

Toxicity following accidental ingestion of more than an incidental amount can be minimized by early administration of chemical adsorbents (e.g. activated charcoal).

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2. Specific hazards arising from the chemical
Oxides of carbon, nitrogen, and sulfur.

5.3. Special protective equipment and precautions for fire fighters
Wear self contained breathing apparatus for firefighting if deemed necessary.
Additional information: none.

5.4. Further information
No data available

6. ACCIDENTAL RELEASE MEASURES
6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with spilled product and contaminated surfaces. Evacuate personnel to safe areas during emergencies. For safe handling instructions see section 7. For proper PPE see section 8.

6.2. Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not allow release directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark.

6.3. Methods and materials for containment and cleaning up
Wipe up any spilled material and dispose of according to instructions in section 13. Wash contaminated surfaces with soap and water.

7. HANDLING AND STORAGE
7.1. Precautions for safe handling
Handle in accordance with good industrial hygiene practices. For additional precautions see section 2.2

7.2. Conditions for safe storage, including any incompatibilities
Store in a cool dry place. Store in original container. Do not store where children or animals may gain access.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1. Control parameters
Components with workplace parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>none</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls
Ensure relevant engineering controls are employed to prevent exceeding threshold values for the listed control parameters in section 8.1.

8.3. Individual protection measures, such as personal protective equipment
In normal use and handling conditions refer to the product label for required PPE. In all other cases the following recommendations would apply.
Eye/face protection
Safety glasses or other similar eye protection conforming to ANSI Z87.1 standards recommended when handling product.

**Skin protection**
Chemical resistant nitrile rubber or similarly compatible gloves recommended when handling product. Dispose of contaminated gloves after use in accordance with applicable local and state regulations. Wash exposed skin with soap and water immediately. Wash all contaminated clothing prior to reuse.

**Respiratory protection**
Not required under normal use conditions.

**Thermal hazards**
None known

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

- **Appearance:** Opaque, dark brown gel/paste
- **Odor:** Sour/meaty
- **Odor threshold:** No data available
- **pH:** 4.29 @ 1% in water (24.7 °C)
- **Melting point/freezing point:** No data available
- **Initial boiling point and boiling range:** No data available
- **Flash point:** No data available
- **Evaporation rate:** No data available
- **Flammability (solid, gas):** No data available
- **Upper/lower flammability or explosive limits:** No data available
- **Vapor pressure:** No data available
- **Vapor density:** No data available
- **Relative density:** 1.33 g/ml
- **Solubility:** Partially soluble in water
- **Partition coefficient: n-octanol/water:** No data available
- **Auto-ignition temperature:** No data available
- **Decomposition temperature:** No data available
- **Viscosity:** 5203 cP at 21.1 °C (Cannon-Fenske)

#### 9.2. Additional Information
10. STABILITY AND REACTIVITY

10.1. Reactivity
No data available

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
No data available

10.4. Conditions to avoid
Exposure to temperatures below 32 °F (0 °C) and greater than 130 °F (55 °C). Exposure to temperatures above 110 °F (43 °C) for extended periods of time.

10.5. Incompatible materials
Strong oxidizing agents. Strong reducing agents.

10.6. Hazardous decomposition products
Other decomposition products – no data available
In the event of a fire: see Section 5

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity
LD50 Oral – Rat – > 5000 mg/kg
LD50 Dermal – Rat – > 5000 mg/kg
LD50 Inhalation – no data available

Skin corrosion/irritation
Skin – Rabbit
Results: moderately irritating
(OECD Test Guideline 404)

Serious eye damage/irritation
Eye – Rabbit
Results: minimal eye irritation
(OECD Test Guideline 405)

Respiratory or skin sensitization
Not a known sensitizer

Germ cell mutagenicity
Not a known mutagen

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

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

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

Reproductive toxicity
No data available

Specific target organ toxicity – single exposure
Abamectin is a neurotoxin that when consumed in sufficient quantities can have toxic effects up to and including death. This product contains a very low concentration of abamectin and normal use should not result in significant occupational hazard.

Specific target organ toxicity – repeated exposure
No data available

Aspiration hazard
No data available

11.2. Other information
No data available

12. ECOLOGICAL INFORMATION

12.1. Toxicity
Toxicity to fish no data available
Toxicity to daphnia no data available
and other aquatic invertebrates

12.2. Persistence and degradability
No data available

12.3. Bioaccumulative potential
No data available

12.4. Mobility in soil
No data available

12.5. Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

The best disposal method is to use the entire quantity per label directions. If it is necessary to dispose of unused material then follow the label instructions and relevant local, state and federal waste disposal guidelines.

Product Disposal:
Do not contaminate water, food or feed by storage or disposal.
14. TRANSPORT INFORMATION

DOT
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

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:

KEEP OUT OF THE REACH OF CHILDREN
CAUTION
Causes moderate eye irritation.
Avoid contact with skin, eyes or clothing.
Wash hands thoroughly with soap and water after use and before eating, drinking, chewing gum, using tobacco, or using the toilet.
To protect the environment, do not allow bait to enter or run off into storm drains, drainage ditches, gutters or surface waters.

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
Abamectin - CAS No. 71751-41-2 (Avermectin B1a 65195-55-3 and Avermectin B1b 65195-56-4)

SARA 311/312 Hazards
Acute and Delayed Health Hazard (Abamectin)

California Proposition 65 Components
Abamectin is listed as a chemical known to the State of California to cause birth defects or other reproductive harm.

TSCA
All components of this product are listed, exempted, or excluded from listing on the U.S. Toxic Substances Control Act chemical substance inventory.
16. OTHER INFORMATION

Acronyms and abbreviations used

- LD50: Lethal Dose, 50%
- OECD: Organization for Economic Cooperation and Development
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Industrial Hygienists
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- DOT: Department of Transportation
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transport Association
- SARA: Superfund Amendments and Reauthorization Act
- TSCA: Toxic Substances Control Act
- CAS-No.: Chemical Abstract Services - Number
- PPE: Personal Protective Equipment
- HMIS: Hazardous Materials Identification System
- NFPA: National Fire Protection Association
- PPM: Parts Per Million

Hazard Rating System Crossover

<table>
<thead>
<tr>
<th>HMIS Rating</th>
<th>NFPA Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazard: 1</td>
<td>Health Hazard: 1</td>
</tr>
<tr>
<td>Flammability: 0</td>
<td>Flammability: 0</td>
</tr>
<tr>
<td>Reactivity: 0</td>
<td>Reactivity: 0</td>
</tr>
</tbody>
</table>

Preparation information

Prepared by: Rockwell Labs Ltd
Version: 1.0
Revision Date: May 15, 2015
Reason for revision: none

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