1. PRODUCT IDENTIFICATION

Product Name: AGRI-MEK SC MITICIDE/INSECTICIDE  
Product No.: A15368D

EPA Signal Word: Warning

Active Ingredient(%): Abamectin (8.0%)  
CAS No.: 65195-56-4 & 65195-55-3

Chemical Name: A mixture of avermectins containing primarily Avermectin B1a and Avermectin B1b

Chemical Class: Glycoside Insecticide

EPA Registration Number(s): 100-1351  
Section(s) Revised: 9

2. HAZARDS IDENTIFICATION

Health and Environmental

Fatal if inhaled. Harmful if swallowed. May be harmful in contact with skin. Irritating to eyes, respiratory tract and skin.

Hazardous Decomposition Products

None known.

Physical Properties

Appearance: White to gray opaque liquid

Odor: Paint like

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>Propylene Glycol</td>
<td>Not Established</td>
<td>Not Established</td>
<td>10 mg/m³ TWA ****</td>
<td>No</td>
</tr>
<tr>
<td>Abamectin (8.0%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>0.02 mg/m³ TWA ***</td>
<td>No</td>
</tr>
</tbody>
</table>

*** Syngenta Occupational Exposure Limit (OEL)

**** Recommended by AIHA (American Industrial Hygiene Association)

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

Syngenta Hazard Category: E

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: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an
5. FIRE FIGHTING MEASURES

Fire and Explosion
- Flash Point (Test Method): > 212°F (Pensky-Martens CC)
- Flammable Limits (% in Air): Lower: Not Applicable Upper: Not Applicable
- Autoignition Temperature: 851°F
- Flammability: Not Applicable

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 in Protective Equipment Section. 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

Product Name: AGRI-MEK SC MITICIDE/INSECTICIDE
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 chemical splash goggles.

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

Inhalation: A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH approved respirator with any HE filter.

Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to gray opaque liquid
Odor: Paint like
Melting Point: Not Applicable
Boiling Point: Not Available
Specific Gravity/Density: 1.03 - 1.07 g/ml @ 68°F (20°C)

pH: 5.0 - 7.0 (neat @ 68 - 77°F (20 - 25°C))

Solubility in H2O
Abamectin: 0.007 - 0.01 mg/l @ 68°F (20°C)

Vapor Pressure
Abamectin: 7.5 x 10(-8) mmHg @ 77°F (25°C)

10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: None known.
Materials to Avoid: None known.
Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

Ingestion: Oral (LD50 Female Rat) : 310 mg/kg body weight
Dermal: Dermal (LD50 Rat) : > 2000 mg/kg body weight
Inhalation: Inhalation (LC50 Rat) : 0.054 - 0.53 mg/l air - 4 hours
Eye Contact: Minimally Irritating (Rabbit)
Skin Contact: Slightly Irritating (Rabbit)
Skin Sensitization: Not a Sensitizer (Guinea Pig)

Reproductive/Developmental Effects
Abamectin: Reproductive toxin in animal studies only at doses acutely toxic to the maternal animal.
Chronic/Subchronic Toxicity Studies
Abamectin: Central nervous system effects in animals.

Carcinogenicity
Abamectin: None observed.

Other Toxicity Information
None

Toxicity of Other Components
Propylene Glycol
Test results reported in Section 11 for the final product take into account any acute hazards related to the propylene glycol in the formulation.
Reported to cause central nervous system depression (anesthesia, dizziness, confusion), headache and nausea. Chronic dietary exposure caused kidney and liver injury in experimental animals.

Target Organs
Active Ingredients
Abamectin: Skin, eye, CNS

Inert Ingredients
Propylene Glycol: CNS, kidney, liver

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects
Abamectin:
Fish (Rainbow Trout) 96-hour LC50 3.6 ppb
Bird (Bobwhite Quail) LD50 Oral > 2000 mg/kg
Invertebrate (Water Flea) 48-hour EC50 0.34 ppb
Green Algae 9-day EC50 > 100 ppm
Bee (Contact) 48-hour LD50 0.41 ug/bee

Environmental Fate
Abamectin:
The information presented here is for the active ingredient, abamectin.

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: Under certain circumstances, discarded product may exhibit TCLP hazardous characteristics. A hazardous waste determination should be done on a case by case basis.

 Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification
Ground Transport - NAFTA
Not regulated.

Comments
Water Transport - International
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Abamectin), Marine Pollutant
Hazard Class: Class 9
Identification Number: UN 3082
Packing Group: PG III

Air Transport
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Abamectin)
Hazard Class: Class 9
Identification Number: UN 3082
Packing Group: PG III

15. REGULATORY INFORMATION

EPCRA SARA Title III Classification
Section 311/312 Hazard Classes: Acute Health Hazard
Chronic Health Hazard

Section 313 Toxic Chemicals: Not Applicable

California Proposition 65
This product does not contain chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

CERCLA/SARA 304 Reportable Quantity (RQ)
None

RCRA Hazardous Waste Classification (40 CFR 261)
Under certain circumstances, discarded product may exhibit TCLP hazardous characteristics. A hazardous waste determination should be done on a case by case basis.

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: 4</td>
<td>Health: 3</td>
</tr>
<tr>
<td>Flammability: 1</td>
<td>Flammability: 1</td>
</tr>
<tr>
<td>Instability: 0</td>
<td>Reactivity: 0</td>
</tr>
</tbody>
</table>

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

Original Issued Date: 4/7/2009
Revision Date: 4/16/2012
Replaces: 8/18/2011

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