1. PRODUCT IDENTIFICATION

Product Name: WARRIOR INSECTICIDE with ZEON TECHNOLOGY

Product No.: A12838B

EPA Signal Word: Warning

Active Ingredient(%): Lambda-Cyhalothrin (11.4%) CAS No.: 91465-08-6

Chemical Name: [1a(S*),3a(Z)]-cyano(3-phenoxyphenyl)methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate

Chemical Class: A pyrethroid insecticide

EPA Registration Number(s): 100-1112

Section(s) Revised: 2, 3, 4, 8, 12, 13

2. HAZARDS IDENTIFICATION

Health and Environmental
Harmful if swallowed. Irritating to eyes and skin. Vapors may cause drowsiness and dizziness. May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

Hazardous Decomposition Products
May decompose at high temperatures forming toxic gases.

Physical Properties
Appearance: Blue opaque liquid (capsule suspension)
Odor: Not determined

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>Naphthalene (&lt;= 1.5%)</td>
<td>10 ppm TWA</td>
<td>10 ppm TWA (skin)</td>
<td>10 ppm TWA **</td>
<td>See &quot;Toxicity&quot;, Sec. 11</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>Not Established</td>
<td>Not Established</td>
<td>50 ppm TWA ****</td>
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<tr>
<td>Petroleum Solvent</td>
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<td>Not Established</td>
<td>100 mg/m³ (15 ppm) TWA *</td>
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<tr>
<td>Lambda-Cyhalothrin (11.4%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>0.04 mg/m³ TWA (skin) ***</td>
<td>No</td>
</tr>
</tbody>
</table>

* recommended by manufacturer
** recommended by NIOSH
*** Syngenta Occupational Exposure Limit (OEL)
**** Recommended by AIHA (American Industrial Hygiene Association)
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. Do not give any liquid to the person. 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 unconscious person.

**Eye Contact:** If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

**Skin Contact:** If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

**Inhalation:** 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 Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

**Notes to Physician**
- There is no specific antidote if this product is ingested.
- Treat symptomatically.
- Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. Treat symptomatically.
- Contains petroleum distillate - vomiting may cause aspiration pneumonia.

**Medical Condition Likely to be Aggravated by Exposure**
None known.

5. FIRE FIGHTING MEASURES

**Fire and Explosion**

- **Flash Point (Test Method):** > 200°F
- **Flammable Limits (% in Air):** Lower: Not Applicable  Upper: Not Applicable
- **Autoignition Temperature:** Not Available
- **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 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

Product Name: WARRIOR INSECTICIDE with ZEON TECHNOLOGY
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/PERS  ONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE 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, nitrile rubber, neoprene rubber or Viton), coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Stringent housekeeping measures are necessary to prevent translocation of the material from contaminated work surfaces to uncontaminated surfaces (railings, doors, etc.). Unprotected contact with such translocated material can result in paresthesia effects (see Section 11 of MSDS). Do not touch unprotected skin areas (face) with contaminated gloves or clothing.

Inhalation: A combination particulate/organic vapor respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with an HE prefilter.

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: Blue opaque liquid (capsule suspension)

Odor: Not determined

Melting Point: Not Applicable

Boiling Point: Not Available

Specific Gravity/Density: 1.07 g/ml @ 68°F (20°C)

pH: 5

Solubility in H2O

Lambda-Cyhalothrin: 0.004mg/l

Vapor Pressure

Lambda-Cyhalothrin: 1.5 x 10(-9) mmHg @ 68°F (20°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: May decompose at high temperatures forming toxic gases.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

Ingestion: Moderately Toxic
12. ECOLOGICAL INFORMATION

Summary of Effects
- Lambda-Cyhalothrin:
  Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
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: Contains Naphthalene U165

14. TRANSPORT INFORMATION

DOT Classification
Ground Transport - NAFTA
Proper Shipping Name: Pyrethroid Pesticides, Liquid, Toxic, (contains Lambda-Cyhalothrin)
Hazard Class or Division: 6.1
Identification Number: UN 3352
Packing Group: PG III

B/L Freight Classification
Insecticides, NOI, Poison

Comments
Water Transport - International
Proper Shipping Name: Pyrethroid Pesticides, Liquid, Toxic, (contains Lambda-Cyhalothrin)
Hazard Class or Division: 6.1
Identification Number: UN 3352
Packing Group: PG III

Air Transport - International
Proper Shipping Name: Pyrethroid Pesticides, Liquid, Toxic, (contains Lambda-Cyhalothrin)
Hazard Class or Division: 6.1
Identification Number: UN 3352
Packing Group: PG III
Comment: Maximum Quantity/Pkg: 60L (2.5L max inner containers)

15. REGULATORY INFORMATION

Product Name: WARRIOR INSECTICIDE with ZEON TECHNOLOGY
EPCRA SARA Title III Classification
Section 311/312 Hazard Classes: Acute Health Hazard
Chronic Health Hazard
Section 313 Toxic Chemicals: Naphthalene (<= 1.5%) (CAS No. 91-20-3)

California Proposition 65
Not Applicable

CERCLA/SARA 302 Reportable Quantity (RQ)
Report product spills > 800 gal. (based on naphthalene [RQ = 100 lbs.] content in the formulation)

RCRA Hazardous Waste Classification (40 CFR 261)
Not Applicable

TSCA Status
Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

<table>
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<tr>
<th>NFPA Hazard Ratings</th>
<th>HMIS Hazard Ratings</th>
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<th>Slight</th>
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<th>Moderate</th>
<th>3</th>
<th>Serious</th>
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</tbody>
</table>

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

Original Issued Date: 12/12/2000
Revision Date: 7/17/2007
Replaces: 10/4/2004

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