1. PRODUCT IDENTIFICATION

<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>Xylene (&lt;= 1%)</td>
<td>100 ppm TWA</td>
<td>100 ppm TWA; 150 ppm STEL</td>
<td>100 ppm TWA**</td>
<td>IARC Group 3</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene (&lt;= 4%)</td>
<td>Not Established</td>
<td>25 ppm TWA</td>
<td>25 ppm TWA**</td>
<td>No</td>
</tr>
<tr>
<td>Cumene (&lt;= 1%)</td>
<td>50 ppm TWA (skin)</td>
<td>50 ppm TWA</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Kaolin Clay</td>
<td>15 mg/m³ TWA (total); 5 mg/m³ TWA (respirable)</td>
<td>2 mg/m³ TWA (respirable)</td>
<td>10 mg/m³ TWA (total); 5 mg/m³ TWA (respirable)**</td>
<td>No</td>
</tr>
<tr>
<td>Crystalline Silica, Quartz</td>
<td>10 mg/m³/(%SiO2+2) (respirable dust)</td>
<td>0.1 mg/m³ (respirable silica)</td>
<td>Not Established</td>
<td>IARC Group 2A</td>
</tr>
<tr>
<td>Amorphous Silica</td>
<td>80 mg/m³/ %SiO2 TWA (total dust)</td>
<td>10 mg/m³ TWA (inhalable dust)</td>
<td>Not Established</td>
<td>IARC Group 3</td>
</tr>
<tr>
<td>Petroleum Solvent</td>
<td>Not Established</td>
<td>Not Established</td>
<td>100 mg/m³ (19 ppm) TWA*</td>
<td>No</td>
</tr>
<tr>
<td>Lambda-Cyhalothrin Technical (10.0%)</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)

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure
- Causes eye and skin irritation. Allergic skin reactions are possible.
- May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.
- Exposure to high vapor levels may cause headache, dizziness, numbness, nausea, incoordination, or other central nervous system effects.

Hazardous Decomposition Products
- Can decompose at high temperatures forming toxic gases.
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): Not Applicable
Flammable Limits (% in Air): Lower: % Not Applicable  Upper: % Not Applicable
Autoignition Temperature: Not Available
Flammability: Not Flammable

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. Sweep up material and place in a 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
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, 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. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, 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).

Inhalation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. A NIOSH-certified combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white powder
Odor: Not available
Melting Point: Not Applicable
Boiling Point: Not Available
Specific Gravity/Density: Not Available
pH: 5-6

Solubility in H2O
Lambda-Cyhalothrin Technical: 0.004 mg/ l

Vapor Pressure
Lambda-Cyhalothrin Technical: 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: Oxidizing agents.
Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)
Ingestion: Moderately Toxic
Reproductive/Developmental Effects
Lambda-Cyhalothrin Technical: Not a developmental or reproductive toxicant.

Chronic/Subchronic Toxicity Studies
Lambda-Cyhalothrin Technical: Reversible paresthesia (abnormal skin sensation).
Reversible clinical signs of neurotoxicity in mammals.

Carcinogenicity
Lambda-Cyhalothrin Technical: No treatment-related tumors in rats or mice.

Other Toxicity Information
In humans, contact with exposed skin may result in temporary itching, tingling, burning or numbness, called paresthesia. The effect may result from splash, aerosol, or hot vapor contact, or transfer to the face from contaminated gloves and hands. The symptoms normally disappear within 24 hours. Face and genital areas are especially susceptible to this effect. Paresthesia involving the face is also known as "subjective facial sensation" or SFS.

Toxicity of Other Components
1,2,4-Trimethylbenzene (<= 4%)
Inhalation of 1,2,4-trimethylbenzene at high concentrations can cause central nervous system depression, respiratory tract irritation, asphyxiation, cardiac stress and coma. Effects of chronic exposure to this solvent can include blood disorders (anemia, leukopenia) and kidney or liver damage.
Amorphous Silica
Amorphous Silica is listed as an IARC (Group 3) carcinogen not classifiable as a human carcinogen (No Data Available) with limited animal evidence. Prolonged exposure to amorphous silica may cause damage to respiratory system and irritation to skin and eyes.
Cumene (<= 1%)
Exposure to cumene vapors may cause irritation to eyes, skin, and respiratory tract. Cumene may also cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects. Prolonged exposure to high concentrations (>100 PPM) may result in liver, kidney or lung damage.
Kaolin Clay
Long term exposure to high concentrations of this dust may produce x-ray evidence of dust in the lungs. Continued long term overexposure may affect respiratory function in some individuals.
Petroleum Solvent
The supplier reports that high vapor/aerosol concentrations (> 1000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects.
Xylene (<= 1%)
Inhalation of xylene at high concentrations can cause central nervous system depression, respiratory tract irritation, asphyxiation, cardiac stress and coma.

Target Organs
Active Ingredients
Lambda-Cyhalothrin Technical: Liver, nervous system

Inert Ingredients
1,2,4-Trimethylbenzene: CNS, liver, kidney, blood, respiratory tract, skin, eye
12. ECOLOGICAL INFORMATION

Summary of Effects
Lambda-Cyhalothrin Technical:
Slightly toxic to birds. Highly toxic to fish, invertebrates and bees.

Eco-Acute Toxicity
Lambda-Cyhalothrin Technical:
Bees LC50/EC50 0.038 ug/bee
Invertebrates (Water Flea) LC50/EC50 0.00036 ppm
Fish (Trout) LC50/EC50 0.00024 ppm
Fish (Bluegill) LC50/EC50 0.00021 ppm
Birds (8-day dietary - Bobwhite Quail) LC50/EC50 > 5.300 ppm
Birds (8-day dietary - Mallard Duck) LC50/EC50 > 3.948 ppm

Eco-Chronic Toxicity
Lambda-Cyhalothrin Technical:
Not available at this time.

Environmental Fate
Lambda-Cyhalothrin Technical:
No data available for the formulation. The information presented here is for the active ingredient, lambda-cyhalothrin. A thorough review of environmental information is not possible in this document.
Not persistent in soil or water. Immobile in soil. Sinks in water (after 24 h).

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
Pesticides, Solid, Toxic, N.O.S. (contains Lambda-Cyhalothrin, 10%), 6.1, UN2588, PGIII

B/L Freight Classification
Insecticides, NOIBN, o/t poison

Comments
None

15. REGULATORY INFORMATION

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

Section 313 Toxic Chemicals:
Xylene (<= 1%) (CAS No. 1330-20-7)
1,2,4-Trimethylbenzene (<= 4%) (CAS No. 95-63-6)
California Proposition 65
Not Applicable

CERCLA/SARA 302 Reportable Quantity (RQ)
Report product spills > 28,000 lbs. (based on xylene [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>2</th>
<th>3</th>
<th>4</th>
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<tr>
<td>Health:</td>
<td>2</td>
<td>Minimal</td>
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<td>Flammability:</td>
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<td>Slight</td>
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<tr>
<td>Instability:</td>
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<td>Moderate</td>
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</table>

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

Original Issued Date: 11/25/1998
Revision Date: 09/29/2003
Replaces: 09/24/2002

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.

RSVP#: SCP-955-00325C

End of MSDS