1. PRODUCT IDENTIFICATION

Product Name: MENTOR
EPA Signal Word: Caution
Product No.: A9579A

EPA Registration Number(s): 100-780
Section(s) Revised: 14

1.1 Ingredients

- CAS No.: 60207-90-1
- Chemical Name: 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole
- Chemical Class: Triazole Derivative Fungicide

2. HAZARDS IDENTIFICATION

2.1 Health and Environmental

Harmful if swallowed. May be harmful in contact with skin.

2.2 Hazardous Decomposition Products

None known.

2.3 Physical Properties

- Appearance: Off-white powder
- Odor: Clay-like

2.4 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>Amorphous Silica</td>
<td>80 mg/m³/%SiO₂ TWA (total dust)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>IARC Group 3</td>
</tr>
<tr>
<td>Diatomaceous Earth</td>
<td>80 mg/m³/%SiO₂ (20 mppcf) TWA</td>
<td>Not Established</td>
<td>6 mg/m³ TWA **</td>
<td>IARC 3</td>
</tr>
<tr>
<td>Propiconazole (45.0%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>8 mg/m³ TWA ***</td>
<td>No</td>
</tr>
</tbody>
</table>

** recommended by NIOSH
*** Syngenta Occupational Exposure Limit (OEL)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.
Syngenta Hazard Category: B

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.
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 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. 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 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

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 dust-proof chemical 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 respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

In case of emergency spills, use a NIOSH certified respirator with any N, R, P or HE filter.

<table>
<thead>
<tr>
<th>9. PHYSICAL AND CHEMICAL PROPERTIES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance:</strong> Off-white powder</td>
</tr>
<tr>
<td><strong>Odor:</strong> Clay-like</td>
</tr>
<tr>
<td><strong>Melting Point:</strong> Not Available</td>
</tr>
<tr>
<td><strong>Boiling Point:</strong> Not Applicable</td>
</tr>
<tr>
<td><strong>Specific Gravity/Density:</strong> 0.28 g/cm³ @ 77°F (25°C)</td>
</tr>
<tr>
<td><strong>pH:</strong> 7 - 9 (1% suspension)</td>
</tr>
<tr>
<td><strong>Solubility in H₂O</strong></td>
</tr>
<tr>
<td>Propiconazole: 0.1 g/l @ 68°F (20°C)</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
</tr>
<tr>
<td>Propiconazole: 4.2 x 10⁻⁷ mmHg @ 77°F (25°C)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10. STABILITY AND REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stability:</strong> Stable under normal use and storage conditions.</td>
</tr>
<tr>
<td><strong>Hazardous Polymerization:</strong> Will not occur.</td>
</tr>
<tr>
<td><strong>Conditions to Avoid:</strong> None known.</td>
</tr>
<tr>
<td><strong>Materials to Avoid:</strong> None known.</td>
</tr>
<tr>
<td><strong>Hazardous Decomposition Products:</strong> None known.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>11. TOXICOLOGICAL INFORMATION</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Acute Toxicity/Irritation Studies (Finished Product)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ingestion:</strong> Oral (LD₅₀ Rabbit) : 1587 mg/kg body weight</td>
</tr>
<tr>
<td><strong>Dermal:</strong> Dermal (LD₅₀ Rat) : &gt; 2000 mg/kg body weight</td>
</tr>
<tr>
<td><strong>Inhalation:</strong> Inhalation (LC₅₀ Rat) : &gt; 5.5 mg/l air - 4 hours</td>
</tr>
<tr>
<td><strong>Eye Contact:</strong> Mildly Irritating (Rabbit)</td>
</tr>
<tr>
<td><strong>Skin Contact:</strong> Slightly Irritating (Rabbit)</td>
</tr>
<tr>
<td><strong>Skin Sensitization:</strong> Not a Sensitizer (Guinea Pig)</td>
</tr>
</tbody>
</table>

**Reproductive/Developmental Effects**
Propiconazole: None observed.

**Chronic/Subchronic Toxicity Studies**
Propiconazole: None observed.

**Carcinogenicity**
Propiconazole: Increased incidence of liver tumors at extremely high doses (male mice).
12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

Propiconazole:
- Fish (Rainbow Trout) 96-hour LC50 0.83 ppm
- Invertebrate (Water Flea) 48-hour EC50 3.2 ppm
- Green Algae 9-day EC50 0.72 ppm
- Bird (Mallard Duck) 14-day LD50 2510 mg/kg

Environmental Fate

Propiconazole:
- The information presented here is for the active ingredient, propiconazole.

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

Ground Transport - NAFTA
Proper Shipping Name: Self-Heating Solid, Organic, N.O.S. (Propiconazole)
Hazard Class: Class 4.2
Identification Number: UN 3088
Packing Group: PG III

Comments
Water Transport - International
Proper Shipping Name: Self-Heating Solid, Organic, N.O.S. (Propiconazole), Marine Pollutant
Hazard Class: Class 4.2
Identification Number: UN 3088
Packing Group: PG III

Air Transport
Proper Shipping Name: Self-Heating Solid, Organic, N.O.S. (Propiconazole)
Hazard Class: Class 4.2
Identification Number: UN 3088
Packing Group: PG III

15. REGULATORY INFORMATION

EPCRA SARA Title III Classification
Section 311/312 Hazard Classes: Acute Health Hazard
Section 313 Toxic Chemicals: Propiconazole (45.0%) (CAS No. 60207-90-1)

California Proposition 65
Not Applicable

CERCLA/SARA 302 Reportable Quantity (RQ)
None

RCRA Hazardous Waste Classification (40 CFR 261)
Not Applicable

TSCA Status
Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Hazard Ratings</th>
<th>HMIS Hazard Ratings</th>
<th>0 Minimal</th>
<th>1 Slight</th>
<th>2 Moderate</th>
<th>3 Serious</th>
<th>4 Extreme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health:</td>
<td>1 Health:</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability:</td>
<td>1 Flammability:</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instability:</td>
<td>0 Reactivity:</td>
<td>0</td>
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</tbody>
</table>

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

Original Issued Date: 8/4/2006
Revision Date: 3/31/2011
Replaces: 10/12/2010

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End of MSDS