MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name: ALAMO
EPA Signal Word: Warning
Product No.: A6780C
Active Ingredient(%): Propiconazole (14.3%)
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
EPA Registration Number(s): 100-741

In Case of Emergency, Call
1-800-888-8372
Syngenta Crop Protection, Inc.
Post Office Box 18300
Greensboro, NC 27419

2. 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>Tetrahydrofurfuryl Alcohol (THFA)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>2 ppm (TWA)****</td>
<td>No</td>
</tr>
<tr>
<td>Propiconazole (14.3%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>10 mg/m³ TWA ***</td>
<td>No</td>
</tr>
</tbody>
</table>

**** Syngenta Occupational Exposure Limit (OEL)

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

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure
May cause eye irritation.
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.

Physical Properties
Appearance: Clear blue liquid
Odor: Aromatic solvent

Unusual Fire, Explosion and Reactivity Hazards
Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.
During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

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-
5. FIRE FIGHTING MEASURES

Fire and Explosion
Flash Point (Test Method): 181°F (Setaflash)
Flammable Limits (% in Air): Lower: % Not Applicable  Upper: % Not Applicable
Autoignition Temperature: Not Available
Flammability: Combustible liquid

Unusual Fire, Explosion and Reactivity Hazards
Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire
Use appropriate extinguishing media for combustibles in the area. 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

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.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear blue liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Aromatic solvent</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Specific Gravity/Density</td>
<td>1.09 g/cm³</td>
</tr>
<tr>
<td>pH</td>
<td>4 - 7 (10% solution in H2O)</td>
</tr>
</tbody>
</table>

Solubility in H2O

<table>
<thead>
<tr>
<th>Compound</th>
<th>Solubility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propiconazole</td>
<td>0.1 g/l @ 68°F (20°C)</td>
</tr>
</tbody>
</table>

Vapor Pressure

<table>
<thead>
<tr>
<th>Compound</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propiconazole</td>
<td>4.2 x 10(-7) mmHg @ 77°F (25°C)</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

- Stability: Stable under normal use and storage conditions.
- Hazardous Polymerization: Will not occur.
- Conditions to Avoid: Flame, heat, ignition sources.
- Materials to Avoid: Strong oxidizers.
- Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity/Irritation Studies (Finished Product)**
  - **Ingestion:** Slightly Toxic
    - Oral (LD50 Rat) : 4,340 mg/kg body weight
  - **Dermal:** Slightly Toxic
    - Dermal (LD50 Rabbit) : > 2,020 mg/kg body weight
  - **Inhalation:** Slightly Toxic
    - Inhalation (LC50 Rat) : > 2.6 mg/l air - 4 hours
  - **Eye Contact:** Moderately Irritating (Rabbit)
  - **Skin Contact:** Non-Irritating (Rabbit)
  - **Skin Sensitization:** Not a Sensitizer (Guinea Pig)

- **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).

Other Toxicity Information
None

Toxicity of Other Components
Tetrahydrofurfuryl Alcohol (THFA)
Inhalation of vapors at high concentrations can cause central nervous system effects (dizziness, headache), irritation to eyes or respiratory tract. Chronic overexposure may affect the kidney.

Target Organs
Active Ingredients
Propiconazole: Liver
Inert Ingredients
Tetrahydrofurfuryl Alcohol (THFA): CNS, Kidney

12. ECOLOGICAL INFORMATION

Summary of Effects
Propiconazole:
Moderately toxic to fish and invertebrates. Practically non-toxic to birds and bees.

Eco-Acute Toxicity
Propiconazole: Bees LC50/EC50 > 25 ug/bee
Invertebrates (Water Flea) LC50/EC50 3.2 - 10.2 ppm
Fish (Trout) LC50/EC50 4.3 ppm
Fish (Bluegill) LC50/EC50 5.7 - 6.4 ppm
Birds (8-day dietary - Bobwhite Quail) LC50/EC50 > 5,620 ppm
Birds (8-day dietary - Mallard Duck) LC50/EC50 > 5,620 ppm

Eco-Chronic Toxicity
Propiconazole: Fish (Fathead minnow) Early Life Stage MATC > 0.43 and < 0.97 mg/l
Invertebrate (Daphnia Magna) Life Cycle MATC > 0.31 and < 0.69 mg/l
Mallard Reproduction NOEC 300 ppm
Bobwhite Reproduction NOEC 1,000 ppm

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
Surface Transportation
Non-Bulk Containers (≤ 119 gal. cap.): Not regulated by DOT.
Bulk Containers (> 119 gal. cap.): Combustible liquid, n.o.s. (Tetrahydrofurfuryl Alcohol), NA1993, PGIII
Air Transportation
Domestic and International: Not regulated.

B/L Freight Classification
Fungicides, NOIBN, α/t poison

Comments
International Transportation
(Water): Not regulated.

15. REGULATORY INFORMATION

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

Section 313 Toxic Chemicals: Propiconazole (14.3%) (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

NFPA Hazard Ratings
Health: 2
Flammability: 2
Instability: 0

HMIS Hazard Ratings
Health: 1
Flammability: 2
Reactivity: 0

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

Original Issued Date: 09/30/1992
Revision Date: 05/17/2004

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.

RSVP# : SCP-955-741A-00082Q

End of MSDS