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"For Chemical Emergency"  
 Spill, Leak, Fire, Exposure or Accident, Call:  
 Chemtrec (24 Hours): (800) 424-9300  
 Outside U.S., call collect: (703) 527-3887

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: <p style="text-align: center;"><b>Quali-Pro Propiconazole 14.3</b></p>	CHEMICAL FORMULA: <p style="text-align: center;"><b>1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxalan-2-yl]methyl]-1H-1,2,4-triazole</b></p>
CHEMICAL FAMILY: <b>Triazole derivative fungicide</b>	

### SECTION 2 - HAZARDOUS INGREDIENT INFORMATION

Section 313 of SARA Title III: Ingredients subject to reporting are identified by asterisk (\*)

CAS NO.	COMPONENT	%	ACGIH TLV	OSHA PEL (TWA)	OTHER
<b>60207-90-1</b>	<b>Propiconazole *</b>	<b>14.3</b>	<b>N/E</b>	<b>N/E</b>	<b>N/E</b>
	<b>Other Ingredients</b>	<b>85.7</b>			

### SECTION 3 - PHYSICAL PROPERTIES

BOILING POINT: <b>330.8 F (166 C)</b>	FREEZING POINT: <b>&lt;-7 F (-21.7 C)</b>	SPECIFIC GRAVITY (H <sub>2</sub> O=1) <b>1.082</b>	VAPOR PRESSURE (mmHg) <b>&lt;9.8 X 10 E-07 mmHg @ 20C (Propiconazole)</b>
VAPOR DENSITY (Air = 1): <b>&gt; 3</b>	% SOLUBILITY IN WATER: <b>Miscible</b>	pH OF 1% SOLUTION: <b>5.8-6.8</b>	
APPEARANCE: <b>Clear, amber liquid</b>	ODOR: <b>Mild characteristic odor</b>	EVAPORATION RATE (Butyl Acetate=1) <b>Unknown</b>	

### SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT & METHOD: <b>No ignition up to 181 F (83 C) SCC</b>	FLAMMABLE LIMITS IN AIR - LFL:      UFL:
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EXTINGUISHING MEDIA:

**When product is involved in a fire use carbon dioxide, dry chemical, water spray or foam.**

SPECIAL FIRE FIGHTING PROCEDURES:

**Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire. Contain run-off. Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.**

UNUSUAL FIRE AND EXPLOSION HAZARDS:

**Can burn in fire releasing irritating and toxic gases due to thermal decomposition or combustion.**

### SECTION 5 - REACTIVITY DATA

STABILITY: **Stable under normal conditions.**

HAZARDOUS POLYMERIZATION: **Not known to occur.**

HAZARDOUS DECOMPOSITION PRODUCTS: **Thermal decomposition may yield the following: oxides of nitrogen, carbon and chloride.**

CONDITIONS & MATERIALS TO AVOID: **Avoid contact with the following: acids, strong oxidizers.**

### SECTION 6 - PROTECTIVE EQUIPMENT & EXPOSURE CONTROL METHODS

RESPIRATORY PROTECTION:

**Atmospheric levels should be maintained below the exposure guideline. For most conditions, no respiratory protection is needed.**

<b>VENTILATION</b>	LOCAL EXHAUST: <b>ADEQUATE</b>	MECHANICAL: <b>ACCEPTABLE</b>	SPECIAL: <b>NONE</b>	OTHER: <b>NONE</b>
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**PRODUCT NAME: Quali-Pro PROPICONAZOLE 14.3**

<b>PROTECTIVE GLOVES:</b> <b>Use chemical resistant gloves made of nitrile- or butyl rubber, neoprene, PVC or Viton</b>	<b>EYE PROTECTION:</b> <b>Use chemical goggles.</b>
<b>OTHER PROTECTIVE CLOTHING OR EQUIPMENT:</b> <b>Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, gloves or full body suit will depend on operation.</b>	<b>WORK/HYGIENIC PRACTICES:</b> <b>AVOID SKIN AND EYE CONTACT</b>

**SECTION 7 - HEALTH HAZARDS**

**PRIMARY ROUTES OF ENTRY:**  
**Inhalation, skin, and eyes**

<b>CARCINOGEN:</b> <b>NONE KNOWN</b>	<b>NTP:</b> <b>N/A</b>	<b>IARC MONOGRAPHS:</b> <b>N/A</b>	<b>OSHA:</b> <b>N/A</b>
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**INHALATION:**  
**Excessive exposure may cause irritation to upper respiratory tract. When respiratory protection is required for certain operations, use a NIOSH approved air-purifying respirator especially if ventilation controls are inadequate. May cause mild central nervous system effects. Symptoms of excessive exposure are dizziness and drowsiness. The aerosol LC<sub>50</sub> for rats is >2.0 mg/L for 4 hours.**

**EYE CONTACT:**  
**May cause moderate eye irritation. Degree of injury will depend on amount of material that gets into the eye and the speed and thoroughness of the first aid treatment.**

**SKIN CONTACT:**  
**Brief contact may cause mild skin irritation. Product is not a sensitizer. Prolonged skin contact is unlikely to result in absorption of harmful amounts but may cause moderate skin irritation. The LD<sub>50</sub> for skin absorption in rats is >2,000 mg/kg.**

**INGESTION:**  
**Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Give victim 2 glasses of water to drink. DO NOT induce vomiting. Careful gastric lavage may be indicated. The oral LD<sub>50</sub> for rats >3,000 mg/kg .**

**SECTION 8 - EMERGENCY & FIRST AID PROCEDURES**

**EYE CONTACT:**  
**Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.**

**SKIN CONTACT:**  
**Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Launder clothing before use. Discard items, which cannot be decontaminated, including leather articles such as shoes, belts, and watchbands.**

**INHALATION:**  
**Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration; if by mouth use rescuer protection (pocket mask etc.). If breathing is difficult, oxygen should be administered by qualified personnel.**

**INGESTION:**  
**Immediately call a poison control center or a doctor. Give victim 2 glasses of water to drink. DO NOT induce vomiting. Do not give anything by mouth to an unconscious person.**

**SECTION 9 - SPILL, LEAK & DISPOSAL INFORMATION**

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**  
**Ventilate the spill area. Contain spills immediately with neutral absorbent e.g., sand or earth. Transfer liquids and solids contaminated to suitable containers for recovery or disposal. Keep spills and cleaning runoff out of municipal sewers and open bodies of water. Launder clothing contaminated during cleanup.**

**WASTE DISPOSAL METHOD:**  
**Do not contaminate food, feed, or water by storage or disposal. Wastes are toxic. Improper disposal of excess waste, spray mixture, or rinsate is a violation of federal law. Spray mixture or rinse water that cannot be used according to label instructions must be disposed of in accordance with applicable local, state, or federal requirements.**

**SECTION 10 - SHIPPING DATA**

DOT SHIPPING DESCRIPTION:

**Not regulated for transportation. Agricultural fungicide, liquid, N.O.I.B.N.**

**SECTION 11 – REGULATORY INFORMATION**

OTHER INFORMATION/PRECAUTIONS:

**TSCA STATUS:** All components are listed on US EPA TSCA inventory or are not required to be listed.  
**SARA 313 (40CFR355.30):** Propiconazole (CAS Number 60207-90-1) 14.3%

**SARA 311 and 312:** This product has been reviewed according to the EPA “Hazard Categories” and SARA Title III and is considered, under applicable definitions, to meet the following categories:  
An acute health hazard.

**CALIFORNIA PROPOSITION 65:** Not listed.

**SECTION 12 - SPECIAL PRECAUTIONS & OTHER INFORMATION**

SPECIAL INSTRUCTIONS:

**Do not store above 150 F (66 C) or below 20 F. Do not store this material near food, feed, or drinking water.**

**Read and follow all label instructions before use. Avoid contaminating water. Do not reuse containers. Open dumping is prohibited.**

COMMON ABBREVIATIONS THAT MAY HAVE BEEN USED: N/A = NOT APPLICABLE N/E = NOT ESTABLISHED

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**DATE:** 07/14/04