



United Phosphorus, Inc.

<b>NFPA</b>	<b>PPE</b>	

Issued Date 05-Nov-2012

Revision Date 20-Nov-2013

Revision Number: 3

**1. PRODUCT AND COMPANY IDENTIFICATION**

**UPI**  
 630 Freedom Business Center  
 Suite 402  
 King of Prussia, PA 19406

**Emergency Telephone Number**  
 Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
 Medical: Rocky Mountain Poison Control Center  
 (866) 673-6671 (24hrs)

<u>Company Information</u>	<u>Contact Information</u>	<u>Phone Number</u>	<u>Available Hrs</u>
UPI	Customer Service R&D Technical Service	1-800-438-6071 610-223-2180	8:00 am to 5:00 pm EST 8:00 am - 5:00 pm (EST)
<b>Product Name</b>	Phoenix Kestrel		
<b>EPA Reg #</b>	66222-41-70506		
<b>Recommended Use</b>	Fungicide/Bactericide		
<b>Product Code</b>	12P-0007		

**2. HAZARDS IDENTIFICATION**

<b>Emergency Overview</b> Harmful if swallowed		
<b>CAUTION</b>		
<b>Appearance</b> Clear, Amber.	<b>Physical State</b> Liquid.	<b>Odor</b> Slight. Solvent.

Potential Health Effects

<b>Eyes</b>	Irritation to the eyes is expected to be temporary.
<b>Skin</b>	Harmful if absorbed through skin. Prolonged contact may cause moderate irritation.
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Ingestion</b>	Harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients Name

Component	CAS-No	Weight %	OSHA PEL
Propiconazole 60207-90-1 ( 14.3 )	60207-90-1	14.3	N/A

### 4. FIRST AID MEASURES

<b>Eye Contact</b>	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 a poison control center or doctor for treatment advice.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Call poison control center or doctor for treatment advice.
<b>Inhalation</b>	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 a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Call a physician or poison control center immediately Never give anything by mouth to an unconscious person Do not induce vomiting unless told to do so by a poison control center or doctor Do not give any liquids.
<b>Notes to Physician</b>	Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

#### Flammable Explosive Properties

##### Flash Point

230 F

##### Method

Tag closed cup

##### Autoignition Temperature

Not available

##### Flammability Limits in Air

Not available

##### Extnguishing Media

Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>), Water spray

##### Fire/Explosion Hazard

May produce toxic materials during fire conditions

##### Hazardous Combustion Products

Thermal decomposition may produce toxic carbon and nitrogen oxides, and hydrogen chloride.

##### NFPA

Health 1

Flammability 1

Instability 0

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with the skin and the eyes. Use personal protective equipment. Remove all sources of ignition.
-----------------------------	--

<b>Environmental Precautions</b>	Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.
<b>Methods for Clean-up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Keep out of reach of children. Wash thoroughly after handling.
<b>Storage</b>	Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children. Do not store above 150 F or below 20 F.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Guidelines</b>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>Engineering Controls</b>	Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems. PESTICIDE APPLICATORS & WORKERS. THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.
<b>Personal Protective Equipment</b>	
<b>Eye/face Protection</b>	Where there is potential for eye contact have eye flushing equipment available. Use eye protection to avoid eye contact. Tightly fitting safety goggles.
<b>Skin Protection</b>	Long sleeved clothing. Chemical resistant footwear plus socks. Chemical resistant gloves.
<b>Respiratory Protection</b>	Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.
<b>General Hygiene Considerations</b>	Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear Amber	<b>Odor</b>	Slight Solvent
<b>Physical State</b>	Liquid	<b>pH</b>	5.82@ 25 C
<b>Boiling Point/Range</b>	Not available	<b>Melting Point/Range</b>	Not available
<b>Specific Gravity</b>	1.082	<b>Solubility</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Vapor pressure</b>	Not available

<b>Vapor Density</b>	Not available	<b>VOC Content</b>	Not available
<b>Viscosity</b>	Not available	<b>Molecular Weight</b>	no data available
<b>Bulk Density</b>	no data available	<b>Percent Solids</b>	Not available
<b>Percent Volatiles</b>	Not available		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions
<b>Conditions to Avoid</b>	Avoid temperature above 150 F and below 20 F. Avoid contact with oxidizing alkaline and acidic conditions and materials.
<b>Incompatible Materials</b>	No materials to be especially mentioned
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of toxic/corrosive gases and vapors Carbon oxides Nitrogen oxides (NOx) Hydrogen chloride.
<b>Possibility of Hazardous Polymerization</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

<b>Product Information</b>	<b>Kestrel: Acute oral LD50 (rat): 5,000 mg/kg Acute dermal LD50 (rat) : &gt;5,050 mg/kg Acute inhalation LC50 (rat) : &gt;2.10 mg/L/4 hr Eye irritation (rabbit): Mildly irritating Skin irritation (rabbit) : Non irritating Sensitization (Guinea pig) : Not a sensitizer</b>
----------------------------	--

### Chronic Toxicity

<b>Carcinogenicity</b>	There are no known carcinogenic chemicals in this product.
------------------------	--

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to fish. Drift and runoff from treated areas may be hazardous to fish/aquatic organisms in adjacent sites. Do not apply directly to water, to areas where surface water is present or inter-tidal areas below the mean high water mark outside of a treated rice field. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including wash water. .

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method</b>	Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
<b>Contaminated Packaging</b>	Refer to product label.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

**ICAO** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	CHINA	KECL	AICS
Propiconazole				X	Present		Present	X

**USA**

**Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Propiconazole	60207-90-1	14.3	1.0

**SARA 311/312 Hazardous Categorization**

Chronic Health Hazard	No
Acute Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

**CERCLA**

**RCRA**

**Pesticide Information**

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Propiconazole 60207-90-1 ( 14.3 )			X	

**State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**State Right-to-Know**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Propiconazole		X			

**International Regulations**

**Mexico - Grade** Not available

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**  
Not determined

**16. OTHER INFORMATION**

**Revision Date** 20-Nov-2013

**Revision Summary**

Update section 11 Update section 3 Update section 5 Update section 8 Update section 9

UPI, Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of UPI, Inc. UPI, Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

**End of MSDS**