



United Phosphorus, Inc.

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

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**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 610-878-6100	8:00 am to 5:00 pm EST 8:00 am - 5:00 pm (EST)

**Product Name** Phoenix Skylark  
**EPA Reg #** 70506-247  
**Recommended Use** fungicide  
**Product Code** 12U-130S

**2. HAZARDS IDENTIFICATION**

<b>Emergency Overview</b>		
May cause eye and skin irritation May cause irritation of respiratory tract Harmful by inhalation, in contact with skin and if swallowed		
<b>CAUTION</b>		
<b>Appearance</b> White.	<b>Physical State</b> Liquid.	<b>Odor</b> Chalk like.

**Potential Health Effects**

**Acute Effects** This material may cause irritation to eyes, skin and respiratory tract. The material is identified as a low hazard to birds, earthworms, and bees.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Tebuconazole tech	107534-96-3	38.7	N/A
Glycerine	56-81-5	10	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction

### 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>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.
<b>Inhalation</b>	If breathing is irregular or stopped, administer artificial respiration. May cause allergic respiratory reaction. 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.
<b>Notes to Physician</b>	No information available.

### 5. FIRE-FIGHTING MEASURES

#### Flammable Explosive Properties

##### Flash Point

>  
200  
°F

##### Autoignition Temperature

Not available

##### Flammability Limits in Air

Not available

##### Extinguishing Media

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

##### Fire/Explosion Hazard

Toxic vapors may be released in the event of fire.

##### Hazardous Combustion Products

Carbon monoxide, Oxides of nitrogen.

**NFPA**

**Health 1**

**Flammability 0**

**Instability 0**

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with the skin and the eyes. Use personal protective equipment.
<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>	Do not eat, drink or smoke when using this product. Keep out of reach of children. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.
<b>Storage</b>	Keep out of the reach of children. Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

<b>Chemical Name</b>	Glycerine
<b>ACGIH TLV</b>	TWA: 10 mg/m <sup>3</sup> mist
<b>OSHA PEL</b>	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction

### Engineering Controls

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.

### Personal Protective Equipment

#### Eye/face Protection

Where there is potential for eye contact have eye flushing equipment available. Use eye protection to avoid eye contact.

#### Skin Protection

Wear protective gloves/clothing.

#### Respiratory Protection

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.

### General Hygiene Considerations

Do not eat, drink or smoke when using this product. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White	<b>Odor</b>	Chalk like
<b>Physical State</b>	Liquid	<b>pH</b>	7.5
<b>Boiling Point/Range</b>	Not available	<b>Melting Point/Range</b>	0 °C / 32 °F
<b>Specific Gravity</b>	1.12 @ 20 C	<b>Solubility</b>	Dispersible in water
<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>	800-1,200 mPa.s	<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

### Stability

Stable under recommended storage conditions

### Conditions to Avoid

Extremes of temperature and direct sunlight Freezing temperatures

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<b>Incompatible Materials</b>	oxidizers
<b>Hazardous Decomposition Products</b>	Carbon monoxide Nitrogen oxides (NOx) Hydrogen chloride hydrogen cyanide
<b>Possibility of Hazardous Polymerization</b>	Hazardous polymerisation does not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### **Component Information**

Skylark :

Acute studies have been performed on formulated product. Non acute studies pertain to the technical grade active ingredient.

Acute oral LD50 = (rat) male 3,776 mg/kg female 3,710 mg/kg  
Acute dermal LD50 = (rat) male and female combined >2,011 mg/kg  
Acute inhalation LC50 = (rat) male and female combined >2.5 mg/L [4hour exposure/determined in liquid aerosol form]

Highest attainable concentration - no deaths

Skin irritation = (rabbit) Slight irritation

Eye irritation = (rabbit) Minimally irritating

Sensitization = (guinea pig) Non-sensitizing

### Chronic Toxicity

#### **Carcinogenicity**

Skylark Chronic=

Tebuconazole caused liver, spleen, adrenal and/or eye effects at high doses in chronic studies in rats and dogs.

Tebuconazole is classified by EPA as a Group C carcinogen(possible human carcinogen) based on liver tumors in mice and no evidence of carcinogenicity in rats. As the liver tumors were seen only at a dose exceeding a Maximum Tolerated Dose (MTD), no significant carcinogenic risk is posed for human exposure.

REPRODUCTION: Tebuconazole is not considered a primary reproductive toxicant in rats. In smaller litters, reproductive effects were observed at the highest concentration but were considered secondary to maternal toxicity.

DEVELOPMENTAL TOXICITY: Tebuconazole is not considered a primary developmental toxicant in laboratory animals.

Developmental effects were only observed at levels which causes maternal toxicity.

NEUROTOXICITY: Tebuconazole cause only transient neurobehavioral effects (e.g. decreased motor activity) in acute, subchronic and/or developmental neurotoxicity studies in rats.

MUTAGENICITY: Tebuconazole was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. .

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Tebuconazole has a low hazard to birds, earthworms, and bees. It is moderately toxic to fish and aquatic organisms.

Fish toxicity:

LC50 (96 hr) Bluegill sunfish = 5.7 mg/L

LC50 (96 hr) Trout = 4.4 mg/L

This material is moderately toxic to daphnia (93% after 30 days) and freshwater fish (96 hr LC50 4.4-5.7 m/l).

Bird toxicity:

Acute oral LD50 bobwhite quail = 1988 mg/kg

Acute oral LD50 male Japanese quail = 4438 mg/kg

Acute oral LD50 female Japanese quail = 2912 mg/kg

Bacteria toxicity

EC50 activated sludge micro-organism >10,000 mg/L

Environmental Fate:

The photolysis/metabolism half-life of Tebuconazole is 2-3 months in natural water. It is strongly bound to soil and has low mobility.

Bioconcentration factor (BCF) = 78.

## 13. DISPOSAL CONSIDERATIONS

### **Waste Disposal Method**

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.

### **Contaminated Packaging**

Non refillable container. Do not reuse this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## 14. TRANSPORT INFORMATION

DOT Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

## 15. REGULATORY INFORMATION

**12U-130S**  
**Phoenix Skylark**

**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	CHINA	KECL	AICS
Tebuconazole tech					(5)-6229	X	KE-04239	
Glycerine	Present	X		X	(7)-338 (2)-242	X	KE-29297	X

**USA**

**Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazardous Categorization**

<b>Chronic Health Hazard</b>	Yes
<b>Acute Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

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

This product contains the following HAPs:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Glycerine	56-81-5	10		Group II		

**CERCLA**

**RCRA**

**Pesticide Information**

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Tebuconazole tech 107534-96-3 ( 38.7 )			X	
Glycerine 56-81-5 ( 10 )		List 4A - Minimum Risk Inerts	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
Glycerine	X	X	X		

**International Regulations**

**Mexico - Grade** Mexico - Grade

Component	Category	Carcinogen Status	Exposure Limits
Glycerine 56-81-5 ( 10 )			Mexico: TWA 10 mg/m <sup>3</sup>

**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** 02-May-2012

**Revision Summary**

Add to system

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**End of MSDS**