



# Material Safety Data Sheet

## United Phosphorus, Inc.

NFPA	PPE		

Issued Date 07-Dec-2012

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Revision Number: 1

### 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 484-804-6974	8:00 am to 5:00 pm EST 8:00 am - 5:00 pm (EST)

**Product Name** Phoenix Raven  
**EPA Reg #** 70506- 260  
**Recommended Use** Fungicide  
**Product Code** 12P-0024

### 2. HAZARDS IDENTIFICATION

<b>Emergency Overview</b>		
May be harmful if swallowed, inhaled, or absorbed through the skin.		
<b>Appearance</b> off-white, Opaque.	<b>Physical State</b> Liquid.	<b>Odor</b> Not available.

#### Potential Health Effects

**Eyes** Causes redness, irritation, tearing.  
**Skin** Harmful if absorbed through skin.  
**Inhalation** May cause irritation of respiratory tract.  
**Ingestion** May cause nausea, vomiting, abdominal pain, loss of coordination.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Iprodione	36734-19-7	23.3	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.
<b>Notes to Physician</b>	Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Flammable Explosive Properties

<b>Flash Point</b>	Not available		
<b>Autoignition Temperature</b>	Not available		
<b>Flammability Limits in Air</b>	Not available		
<b>Extnguishing Media</b>	Dry chemical, Carbon dioxide (CO2), Foam, Water spray		
<b>Fire/Explosion Hazard</b>	Under fire conditions, toxic, corrosive fumes may be emitted.		
<b>Hazardous Combustion Products</b>	Oxides of nitrogen, Hydrogen chloride, Sulfur oxides.		
<b>NFPA</b>	<b>Health 2</b>	<b>Flammability 0</b>	<b>Instability 0</b>

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with the skin and the eyes. Use personal protective equipment. Ensure adequate ventilation.
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<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. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Keep out of reach of children.
<b>Storage</b>	Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur.

## 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. Safety glasses with side-shields. 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. 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>	off-white Opaque	<b>Odor</b>	Not available
<b>Physical State</b>	Liquid	<b>pH</b>	5.44
<b>Boiling Point/Range</b>	Not available	<b>Melting Point/Range</b>	Not available

<b>Specific Gravity</b>	1.034 g/ml	<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>	Heat, flames and sparks
<b>Incompatible Materials</b>	Strong oxidizing agents Strong acids Strong bases
<b>Hazardous Decomposition Products</b>	Oxides of sulfur Hydrogen chloride. Oxides of nitrogen
<b>Possibility of Hazardous Polymerization</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Product Information

Raven:  
Acute Oral LD50 (rat) = >5,000 mg/kg  
Acute Dermal LD50 (rabbit) = > 2,000 mg/kg  
Acute Inhalation LC50 (rat) = 2.03 mg/L - 4hr  
Eye irritation (rabbit) = Slightly irritating  
Skin irritation (rabbit) = Non-irritating

### Chronic Toxicity

#### Carcinogenicity

There are no known carcinogenic chemicals in this product.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Iprodione =  
Avian toxicity  
Northern Bobwhite Quail - Oral LD50 = >2,000 mg/kg  
Mallard - Oral LD50 = 10,437 mg/kg  
Northern Bobwhite Quail - 5 day LC50 = >5620 ppm  
Mallard - 5 day LC50 = >5,620 ppm

#### Fish Toxicity

Bluegill - 96 hr LC50 = 6.3 ppm  
Rainbow trout - 96 hr LC50 = 4.1 ppm

#### Bee toxicity

Relatively non-toxic to bees on an acute contact basis.

**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** 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
Iprodione				X		X	KE-10192	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**

**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
Iprodione 36734-19-7 ( 23.3 )			X	

State Regulations

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	Category	California Prop. 65	Non-additive, corrosive chemical type
Iprodione	36734-19-7	Carcinogen	Carcinogen	

**State Right-to-Know**

International Regulations

**Mexico - Grade**

Mexico - Grade

Component	Category	Carcinogen Status	Exposure Limits
Iprodione 36734-19-7 ( 23.3 )	Carcinogen		

**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**

10-Dec-2012

**Revision Summary**

Add to system

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**End of MSDS**