



# Material Safety Data Sheet

## United Phosphorus, Inc.

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

Issued Date 08-Feb-2007

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Revision Number: 5

### 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)

Company Information  
 UPI

Contact Information  
 Customer Service  
 R&D Technical Service

Phone Number  
 1-800-438-6071  
 610-878-6100

Available Hrs  
 8:00 am to 5:00 pm EST  
 8:00 am - 5:00 pm (EST)

**Product Name** AQUATHOL® Super K  
**EPA Reg #** 70506-191  
**Recommended Use** Aquatic herbicide  
**Product Code** 12-388

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

May be fatal if swallowed.  
Harmful if absorbed through skin  
Causes irreversible eye damage

**DANGER!**

**Appearance** Beige.

**Physical State** Granular.

**Odor** Odorless.

### Potential Health Effects

- Inhalation
- Skin contact

**Eyes**

Severely irritating to the eyes.

**Skin**

May cause mild skin irritation.

**Ingestion**

May be harmful if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Dipotassium endothall salt	2164-07-0	63	N/A
2-propenamide polymer with potassium	31212-13-2	28	N/A

## 4. FIRST AID MEASURES

**Eye Contact**

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.

**Skin Contact**

Take off contaminated clothing.  
Rinse skin immediately with plenty of water for 15-20 minutes.  
Call poison control center or doctor for treatment advice.

**Inhalation**

Move person to fresh air.  
If person is not breathing, call 911 or an ambulance, then give artificial respiration.  
Call a poison control center or doctor for further treatment advice.

**Ingestion**

Call a physician or Poison Control Center immediately  
Have person sip a glass of water if able to swallow  
Do not induce vomiting unless told to do so by a poison control center or doctor  
Never give anything by mouth to an unconscious person

**Notes to Physician**

No information available  
Treat symptomatically



## 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. .
<b>Personal Protective Equipment</b>	
<b>Eye/face Protection</b>	Avoid contact with eyes. Goggles.
<b>Skin Protection</b>	Rubber 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. .

### General Hygiene Considerations

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>	Beige	<b>Odor</b>	Odorless
<b>Physical State</b>	Granular	<b>pH</b>	6.9
<b>Boiling Point/Range</b>	Not available	<b>Melting Point/Range</b>	Not available
<b>Specific Gravity</b>	0.607 g/cm <sup>3</sup>	<b>Solubility</b>	>65 g/100ml
<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>	No information available.
<b>Incompatible Materials</b>	No materials to be especially mentioned.
<b>Hazardous Decomposition Products</b>	Extreme temperatures may convert endothall product to endothall anhydride, a strong vesicant, causing blistering of eyes, mucous membranes and skin. .
<b>Possibility of Hazardous Polymerization</b>	Hazardous polymerisation does not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### **Product Information**

**Single exposure studies indicate:**  
**Oral- Moderately toxic to Rats (LD50 98 kg/kg)**  
**Dermal - No more than slightly toxic to rabbits (LD50 > 2,000 mg/kg)**  
**Eye Irritation - Severely irritating to rabbits**  
**Skin Irritation - Slightly irritating to rabbits**  
**No skin allergy was observed in guinea pigs following repeated exposure.**

#### **Component Information**

Endothal-potassium Although no allergic skin reactions were observed in guinea pigs following exposure to this material in water, allergic skin reactions were observed following exposure to this material in ethanol. Repeated application to the skin of rats produced severe skin irritation, liver, and kidney effects considered to be secondary to irritation, and increased mortality. Long-term dietary administration produced no adverse effects in rats.

### Chronic Toxicity

There are no known carcinogenic chemicals in this product

### Carcinogenicity

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Endothal-potassium: This material is practically non-toxic to bluegill sunfish (LC50 107-528.7 mg/l), eastern oysters (LC50 117 mg/l), largemouth bass (LC50 130 mg/l), fiddler crab (LC50 752.4 mg/l), and sheephead minnow (LC50 340 mg/l) and slightly toxic to mysid shrimp (LC50 79 mg/l) and smallmouth bass (LC50 47 mg/l). It is practically non-toxic to slightly toxic to *Daphnia magna* (EC50 72-319.5 mg/l) and no more than moderately toxic to freshwater blue-green algae (LC50 >4.8 mg/l), freshwater diatoms (LC50 >3.6 mg/l), freshwater green algae (LC50 >4.8 mg/l) and marine diatoms (LC50 >9.0 mg/l).

Endothall. Material is slightly toxic to bluegill sunfish (96 hr LC50 77 mg/l), rainbow trout (96-hr LC50 0.94 mg/l) *Daphnia magna* (48 hour LC50 92 mg/l) eastern oysters (96 hr LC50 54 mg/l) mysid shrimp (96 hr LC50 39 mg/l) and fiddler crab (96 hr LC50 85.1 mg/l) It is practically non-toxic to sheephead minnow (96 hr LC50 110 mg/l) and common mummichog (96 hr LC50 213.9 mg/l).

#### Chem Fate:

This material is rapidly degraded in aqueous systems by indigenous microbial population to CO<sub>2</sub> and other non-toxic natural products.

## 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**

Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. TRANSPORT INFORMATION

DOT

**Proper Shipping Name** Pesticides, solid, toxic, n.o.s. (Endothall)  
**Hazard Class** 6.1  
**UN-No** 2588  
**Packing Group** PG III  
**Reportable Quantity (RQ):** 1,000 lbs (Endothall)

ICAO

**UN-No** 2588  
**Proper Shipping Name** Pesticide, solid, toxic, n.o.s. (Endothall)  
**Hazard Class** 6.1  
**Packing Group** PG III

IATA

**UN-No** 2588  
**Proper Shipping Name** Pesticide, solid, toxic, n.o.s. (Endothall)  
**Hazard Class** 6.1  
**Packing Group** PG III  
**ERG Code** 6 L

IMDG/IMO

**Proper Shipping Name** Pesticide, solid, toxic, n.o.s. (Endothall)  
**Hazard Class** 6.1  
**UN-No** 2588  
**Packing Group** PG III  
**EmS No.** F-A, S-A

## 15. REGULATORY INFORMATION

International Inventories

Dipotassium endothall salt

**NDSL** Listed  
**EINECS/ELINCS** Listed

2-propenamide polymer with potassium

**DSL** Listed  
**ENCS** Listed  
**CHINA** Listed

USAFederal Regulations

SARA 313

Y

Chemical Name	CAS-No	Weight %
Dipotassium endothall salt	2164-07-0	63

**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**

**State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**State Right-to-Know**

**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** 19-Nov-2009

**Revision Summary**

Update Misc section

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**End of MSDS**