



# Material Safety Data Sheet

## United Phosphorus, Inc.

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

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Revision Number: 2

12-204 - AQUATHOL® K Aquatic Herbicide

### 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

Phone Number  
1-800-438-6071

Available Hrs  
8:00 am to 5:00 pm EST

**Product Name** AQUATHOL® K Aquatic Herbicide  
**EPA Reg #** 70506-176  
**Recommended Use** Aquatic herbicide  
**Product Code** 12-204

### 2. HAZARDS IDENTIFICATION

**Emergency Overview**  
Causes irreversible eye damage  
May be fatal if swallowed.  
May be fatal if inhaled  
Harmful if absorbed through skin

**DANGER!**

**Appearance** Yellow, Brown.

**Physical State** Liquid.

**Odor** Slight chlorine.

Potential Health Effects

- Principle Routes of Exposure
- Inhalation
- Skin contact

**Eyes**  
**Skin**

Causes irreversible eye damage..  
May cause mild skin irritation. Repeated or prolonged exposure may cause severe skin irritation.. Prolonged contact can result in redness and blistering of skin..

**Inhalation**  
**Ingestion**

Slightly toxic if inhaled.  
Harmful if swallowed.



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..

**Methods for Clean-up**

Remove all ignition sources. Soak up with inert absorbent material. Ground and bond containers when transferring material. Keep in suitable and closed containers for disposal.

**7. HANDLING AND STORAGE**

**Handling**

Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Keep out of reach of children. Empty containers may contain hazardous residues.

**Storage**

Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. .

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**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. .

**Personal Protective Equipment**

**Eye/face Protection**

Tightly fitting safety goggles

**Skin Protection**

Rubber gloves.

**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. Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Yellow Brown	<b>Odor</b>	Slight chlorine
<b>Physical State</b>	Liquid	<b>pH</b>	7.4
<b>Boiling Point/Range</b>	>100 °C	<b>Melting Point/Range</b>	Not available
<b>Specific Gravity</b>	1.285	<b>Solubility</b>	Miscible
<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>	59.7		

**10. STABILITY AND REACTIVITY**

**Stability**

Stable under normal conditions

**Conditions to Avoid**

No information available.

**Incompatible Materials**

No materials to be especially mentioned

**Hazardous Decomposition Products**

Extreme temperatures may convert endothall product to endothall anhydride, a strong vesicant, causing blistering of

eyes, mucous membranes and skin. .

**Possibility of Hazardous Polymerization**

None under normal processing

**11. TOXICOLOGICAL INFORMATION****Acute Toxicity****Component Information**

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. Dermal - Slightly toxic to Rabbits (LD50 2,000 mg/kg) Skin irritation - Non-irritating to rabbits Inhalation - Slightly toxic to rats (4 hr LC50 0.83 mg/l) aerosol Eye irritation - Cause irreversible eye damage in rabbits. Endothall- Intentional swallowing of 40 ml led to death within 12-hours. Skin allergy was observed in guinea pigs following repeated exposures. Repeated dietary administration (via gelatin capsules) produced vomiting, diarrhea, sluggish movements, and liver, kidney and blood effects in dogs. Long-term dietary administration to rats and mice produced effects in the glandular stomach. High mortality rates and intestinal tumors considered to be secondary to the effects in the stomach were observed in mice. Long-term application to the skin of mice produced no tumors. No birth defects were observed in the offspring of rats exposed orally during pregnancy, even at dosages that produced adverse effects on the mothers. Skeletal anomalies were observed in the offspring of rabbits and mice exposed orally during pregnancy, but only at dosages that produced adverse effects in the mothers. No genetic changes were observed in tests using bacteria, animal cells or animals.

**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).

**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, liquid, toxic, n.o.s. (Endothal)  
**Hazard Class** 6.1  
**UN-No** 2902  
**Packing Group** PG III  
**Reportable Quantity (RQ):** 1,000 lbs

**ICAO**

**UN-No** 2902  
**Proper Shipping Name** Pesticide, liquid, toxic, n.o.s. (Endothal)  
**Hazard Class** 6.1  
**Packing Group** PG III

**IATA**

**UN-No** 2902  
**Proper Shipping Name** Pesticide, liquid, toxic, n.o.s. (Endothal)  
**Hazard Class** 6.1  
**Packing Group** PG III  
**ERG Code** 6L

**IMDG/IMO**

**Proper Shipping Name** Pesticide, liquid, toxic, n.o.s. (Endothal)  
**Hazard Class** 6.1  
**UN-No** 2902  
**Packing Group** PG III  
**EmS No.** F-A, S-A

**15. REGULATORY INFORMATION**

**International Inventories**

Dipotassium endothall salt  
**NDSL** Listed  
**EINECS/ELINCS** Listed

**USA**

**Federal Regulations**

**SARA 313**  
 Y

Chemical Name	CAS-No	Weight %
Dipotassium endothall salt	2164-07-0	40.3

**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**

08-Nov-2007

**Revision Summary**

Update section 3

**Miscellaneous**

UPI has aquired Cerexagri. The previous EPA registration number was 4581-204

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End of MSDS