



Material Safety Data Sheet

United Phosphorus, Inc.

NFPA	PPE		

Issued Date 07-Feb-2007

Revision Date 08-Nov-2007

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

Appearance	Yellow Brown	Odor	Slight chlorine
Physical State	Liquid	pH	7.4
Boiling Point/Range	>100 °C	Melting Point/Range	Not available
Specific Gravity	1.285	Solubility	Miscible
Evaporation Rate	Not available	Vapor Pressure	Not available
Vapor Density	Not available	VOC Content	Not available
Viscosity	Not available	Molecular Weight	No data available
Bulk Density	No data available	Percent Solids	Not available
Percent Volatiles	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

UPI, Inc. believes that the information and recommendations container 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