



Material Safety Data Sheet

United Phosphorus, Inc.

NFPA	PPE		

Issued Date 08-Feb-2007

Revision Date 08-Nov-2007

Revision Number: 4

12-388 - AQUATHOL® Super K

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) 767-5089 (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 Centre 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

5. FIRE-FIGHTING MEASURES**Flammable Explosive Properties****Flash Point**

Not available

Autoignition Temperature

Not available

Flammability Limits in Air

Not available

Extinguishing Media

Use: Water spray, Carbon dioxide (CO2), Foam, Dry chemical.

Fire/Explosion Hazard

Firefighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear and self-contained breathing apparatus. Fire fighting equipment should be thoroughly decontaminated after use.

Hazardous Combustion Products

No information available.

NEPA

Health 3

Flammability 0

Instability 1

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions**

Use personal protective equipment. Avoid contact with the skin and the eyes.

Environmental Precautions

Do not flush into surface water or sanitary sewer system. 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..

Methods for Clean-up

Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin, eyes and clothing. Avoid dust formation. Empty containers may contain hazardous residues. Keep out of reach of children.

Storage

Keep in properly labelled containers. 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**

Avoid contact with eyes. 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. 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

Appearance	Beige	Odor	Odorless
Physical State	Granular	pH	6.9
Boiling Point/Range	Not available	Melting Point/Range	Not available
Specific Gravity	0.607 g/cm ³	Solubility	>65 g/100ml
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	Not available		

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

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 CO₂ 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

USA**Federal 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**

08-Nov-2007

Revision Summary

Update logo Add information on previous EPA registration number

Miscellaneous

UPI has acquired Cerexagri, Inc. The previous EPA registration number assignment 4581-388

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End of MSDS