1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name**
AQUATHOL® Super K

**EPA Reg #**
70506-191

**Recommended Use**
Aquatic herbicide

**Product Code**
12-388

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**Company Information**

<table>
<thead>
<tr>
<th>UPI</th>
<th>Contact Information</th>
<th>Phone Number</th>
<th>Available Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPI</td>
<td>Customer Service</td>
<td>1-800-438-6071</td>
<td>8:00 am to 5:00 pm EST</td>
</tr>
<tr>
<td></td>
<td>R&amp;D Technical Service</td>
<td>610-878-6100</td>
<td>8:00 am - 5:00 pm (EST)</td>
</tr>
</tbody>
</table>

**Emergency Telephone Number**
Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison Control Center
(866) 673-6671 (24hrs)
2. HAZARDS IDENTIFICATION

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

DANGER!


Potential Health Effects
- Inhalation
- Skin contact
  - Eyes Severly irritating to the eyes.
  - Skin May cause mild skin irritation.
  - Ingestion May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipotassium endothall salt</td>
<td>2164-07-0</td>
<td>63</td>
<td>N/A</td>
</tr>
<tr>
<td>2-propenamide polymer with potassium</td>
<td>31212-13-2</td>
<td>28</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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 physician or 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.

NFPA 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

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.

NIOSH approved half- or full-face respirator with a cartridge or canister approved for dusts and mists or a cartridge with any N, R, P, or He filter. Note: the quarter face cupstyle respirator does not meet this requirement.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
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<tr>
<td>Physical State</td>
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</tr>
<tr>
<td>Boiling Point/Range</td>
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<tr>
<td>Specific Gravity</td>
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</tr>
<tr>
<td>Evaporation Rate</td>
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<tr>
<td>Vapor Density</td>
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<tr>
<td>Viscosity</td>
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<td>Bulk Density</td>
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<td>Solubility</td>
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<td>Vapor Pressure</td>
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<td>Molecular Weight</td>
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<tr>
<td>Percent Solids</td>
<td>Not available</td>
</tr>
</tbody>
</table>

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 mg/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
Endothall dipotassium salt ecotoxicity

Acute Contact Toxicity Honey Bee (Apis mellifera)
For endothall acid, mono-amine salt, and dipotassium salt:
   Practically non-toxic

Acute Toxicity Avian
Mallard duck (Anas platyrhynchos), LD50 = 328 mg/kg

Acute Toxicity Freshwater Fish
Bluegill sunfish (Lepomis macrochirus), flow-thru, EC50 = 1071 ppm
Rainbow trout (Oncorhynchus mykiss), flow-thru, EC50 = 363 ppm
Chanel catfish (Ictalurus punctatus), static, EC50 = >100 ppm

Acute Toxicity Freshwater Invertebrates
Waterflea (Daphnia magna), flow-thru 48hr, EC50 = 223 ppm
Scud (Gammarius lacustris), static 48hr, EC50 = 313 ppm

Acute Toxicity Estuarine/Marine Fish
Sheepshead minnow (Cyprinodon variegates), flow-thru 96hr,
   EC50 = 340 ppm
Coho salmon (Oncorhynchus kisutch), static, 96hr, EC50 = >100 ppm

Acute Toxicity Estuarine/Marine Invertebrates
Mysid shrimp (Mysidopsis bahia), flow-thru 96hr, EC50 = 257 ppm
Eastern oyster (Crassostrea virginica) shell deposition,
   flow-thru 96hr, EC50 = 335 ppm

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
Non refillable container. Do not reuse this container. Clean container promptly after emptying. (if plastic pail) Triple rinse (or equivalent). Then offer for recycling if available or puncture and dipose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(if plastic bag) Completely empty bag into application equipment. Then offer for recycling if available or dipose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.
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

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Listed</th>
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<tbody>
<tr>
<td>NDAL</td>
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<tr>
<td>EINECS/ELINCS</td>
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2-propenamide polymer with potassium

<table>
<thead>
<tr>
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<tbody>
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<td>DSL</td>
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<tr>
<td>ENCS</td>
<td>Listed</td>
</tr>
<tr>
<td>CHINA</td>
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</table>

USA

Federal Regulations

SARA 313

Y

<table>
<thead>
<tr>
<th>Chemical Name</th>
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<td>63</td>
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</table>
SARA 311/312 Hazardous Categorization

<table>
<thead>
<tr>
<th>Category</th>
<th>Yes/No</th>
</tr>
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<tbody>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Acute Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

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 21-Dec-2010

Revision Summary Update section 8 Update section 13

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End of MSDS