

4581-174

08/22/2006

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

AUG 22 2006

K. Jayne Walz  
Cerexagri, Inc.  
630 Freedom Business Center  
Suite 402  
King of Prussia, PA 19406

Dear Ms. Walz:

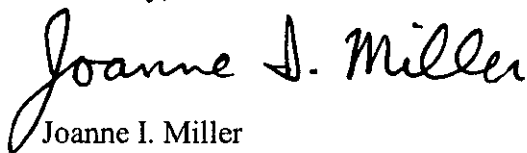
Subject: Label Amendment – Removing the Fish Consumption Prohibition Statement  
Hydrothol 191 Aquatic Algicide and Herbicide  
EPA Registration Number 4581-174

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following changes made:

1. Under **First Aid**, make "If on Skin" the last exposure category.
2. Under the **Hazards to Humans (and Domestic Animals)** section, add the following to this statement "Wash thoroughly with soap and water after handling and before eating, **drinking, chewing gum, or using tobacco.**"
3. Under the **Storage and Disposal** section, the first bullet must read "**Pesticide** Storage Instructions."
4. The following **Warranty and Disclaimer** statements must be expressed in the following manner:  
**To the extent consistent with applicable law**, Cerexagri makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty. **To the extent consistent with applicable law**, in no case shall Cerexagri or seller be liable for consequential, special or indirect damages resulting from the use or handling of this product including, but not limited to, loss of profits, business reputation, or customers; labor costs; or other expenses incurred in planning or harvesting.

One copy of the label stamped "Accepted with comments" is enclosed for your records. This label supersedes all labels previously accepted for this product. Please submit one copy of the final printed label that incorporates the required changes before the product is released for shipment. If you have any questions, please contact Tracy White by phone at (703) 308-0042 or via email at [white.tracy@epa.gov](mailto:white.tracy@epa.gov).

Sincerely,



Joanne I. Miller  
Product Manager (23)  
Herbicide Branch  
Registration Division (7505P)

Enclosure

# HYDROTHOL 191

## AQUATIC ALGICIDE AND HERBICIDE

**ACTIVE INGREDIENT:**

Mono(N,N-dimethylalkylamine\*\*) salt of endothall\* . . . . . 53.0%

OTHER INGREDIENTS: . . . . . 47.0%

TOTAL . . . . . 100.0%

Contains 2 lb. endothall\* per gallon

\*7-oxabicyclo [2.2.1] heptane-2,3-dicarboxylic acid equivalent 23.36%

\*\*Alkyl groups as derived from Coconut Oil

### KEEP OUT OF REACH OF CHILDREN

### DANGER

**FIRST AID:**

**IF IN EYES:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

**IF ON SKIN:**

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

**IF INHALED:**

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

**IF SWALLOWED:**

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

**HOT LINE NUMBER:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact (303) 623-5716 for emergency medical treatment information.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

EPA Registration No. 4581-174

EPA Establishment No. 4581-MI-1

Net Contents \_\_\_\_\_

Sold by:  
Cerexagri, Inc.

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated:**  
**AUG 22 2006**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

4581-174

630 Freedom Business Center, Suite 402  
King of Prussia, PA 19406  
1 800-438-6071  
www.cerexagri.com

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**GENERAL INFORMATION**

HYDROTHOL 191 is a liquid concentrate soluble in water and is a highly effective aquatic herbicide and algicide for use in irrigation and drainage canals, lakes and ponds. Apply when weeds and algae are actively growing. Note: Susceptibility of algae may vary due to subspecies, strains or environmental conditions. Dosage rates are measured in parts per million (ppm) endothall acid.

Necessary approval and/or permits should be obtained in states where required. Consult state water or conservation authorities before applying to public waters or to ponds, canals or streams which flow into public waters.

**LAKES AND PONDS**

**ALGAE CONTROL:** HYDROTHOL 191 is effective on a broad range of planktonic, filamentous, and branched algae. Note: Susceptibility of algae may vary due to subspecies, strains or environmental conditions. Generally rates of 0.05 to 0.3 ppm (0.6-3.6 pints per acre foot) are effective for the control of algae. Repeat applications when algae reappear and reach treatment levels. Dosages may be increased (from 0.3 to 1.5 ppm) where greater longevity of control is desired or to improve efficacy on species that prove difficult to control. Due to the potential for fish toxicity at higher rates, it is suggested that applications above 0.3 ppm be made only by commercial applicators as marginal or sectional treatments.

**SUBMERGED AQUATICS:** Apply HYDROTHOL 191 at 0.7 gallons to 4.0 gallons per acre foot (0.5 to 3.0 ppm) for control of aquatic weeds. HYDROTHOL 191 is effective on a broad range of aquatic weeds including: Hydrilla, Hygrophila\*, Naiad, Elodea canadensis, Cabomba\*, Coontail, Bur Reed\*, Milfoil, Pondweed (Potamogeton spp.), Vallisneria, Zannichellia and Water Stargrass\*. Due to the toxicity to fish, the use of HYDROTHOL 191 for submerged aquatic weeds is suggested only by commercial applicators on a marginal or sectional rather than overall type treatment. Use dosages over 1.0 ppm only on very narrow margins or in areas where some fish kill is not objectional. Do not treat more than 1/10 of the lake or pond at one time with doses in excess of 1.0 ppm.

\*Not for this use in California

**RATE OF APPLICATION: LAKES AND PONDS**

<b>Algae or Weed</b>	<b>Rate (ppm)</b>	<b>Amount per Acre Ft.</b>
Algae Planktonic	0.05-1.5	0.6-18.0 pints

Filamentous Branched (Use in California limited to Cladophora, Pithophora, Spirogyra, Chara)		
Bur Reed*	2-3	2.7-4.0 gal.
Cabomba*	2-3	2.7-4.0 gal.
Coontail	0.5-1.5	0.7-2.1 gal.
Elodea Canadensis	2-3	2.7-4.0 gal.
Hydrilla	1-2	1.4-2.7 gal.
Hygrophila*	2-3	2.7-4.0 gal.
Milfoil	1-2	1.4-2.7 gal.
Naiad (Najas spp.)	1-1.5	1.4-2.1 gal.
Pondweed (Potamogeton spp.)	0.5-2	0.7-2.7 gal.
Water Stargrass*	2-3	2.7-4.0 gal.
Vallisneria	2-3	2.7-4.0 gal.
Zannichellia	1-2	1.4-2.7 gal.

\*Not for this use in California

### IRRIGATION AND DRAINAGE CANALS

Apply HYDROTHOL 191 as a surface spray with uniform coverage or inject under the surface of the water. The minimum contact time with weeds for optimum results should be two hours.

#### Rate of Application: Irrigation and Drainage Canals

Algae controlled: planktonic, filamentous and branched algae (Use in California limited to Cladophora, Pithophora, Spirogyra, Chara). Submerged aquatic plants controlled: Hydrilla, Hygrophila\*, Naiad, Elodea canadensis, Cabomba\*, Coontail, Bur Reed\*, Milfoil, Pondweed (Potamogeton spp.), Vallisneria, Zannichellia and Water Stargrass\*. Due to fish toxicity, applications utilizing rates higher than 0.3 ppm should be made by commercial applicators only.

HEAVY INFESTATION—Apply at a rate of 4.0 to 6.75 gal. per acre foot (equivalent to 3.0-5.0 ppm). See table below.

MODERATE OR LIGHT INFESTATIONS—Apply at a rate of 1.4 to 2.7 gal. per acre foot (equivalent to 1.0-2.0 ppm). See table below.

### GALLONS OF HYDROTHOL 191 REQUIRED TO TREAT 1 MILE OF DITCH, 1 FOOT DEEP

ppm	Width of Ditch or Canal in Feet									
	4	6	8	10	12	14	16	18	20	22
1.0 ppm	0.7	1.0	1.3	1.7	1.9	2.3	2.6	2.9	3.3	3.6
2.0 ppm	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9	6.5	7.2
3.0 ppm	2.0	2.8	3.9	4.9	5.9	6.8	7.8	8.8	9.8	10.8
4.0 ppm	2.6	3.9	5.2	6.6	7.8	9.1	10.4	11.8	13.1	14.4
5.0 ppm	3.2	4.9	6.5	8.2	9.7	11.5	13.1	14.7	16.4	18.0

Note: 1.1 pt. HYDROTHOL 191 per acre foot equals 0.1 ppm of endothall (acid).

**APPROXIMATE QUANTITY OF HYDROTHOL 191 FOR ONE ACRE\*  
TREATMENT**

Depth	Dosages for Various Concentrations in PPM								
	0.05	0.1	0.2	0.3	0.5	0.8	1.0	2.0	5.0
1 ft.	0.6 pts	1.1 pts	2.2 pts	0.4 gal	0.7 gal	1.1 gal	1.4 gal	2.7 gal	6.8 gal
2 ft.	1.1 pts	2.2 pts	4.3 pts	0.8 gal	1.4 gal	2.2 gal	2.8 gal	5.4 gal	13.6 gal
4 ft.	2.2 pts	4.3 pts	8.6 pts	1.6 gal	2.7 gal	4.4 gal	5.4 gal	10.9 gal	27.2 gal
6 ft.	3.3 pts	6.5 pts	12.9 pts	2.5 gal	4.1 gal	6.5 gal	8.2 gal	16.3 gal	40.8 gal

\*One acre equals approximately 208' x 208'

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS  
(AND DOMESTIC ANIMALS)  
DANGER**

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS. MAY BE FATAL IF SWALLOWED, OR ABSORBED THROUGH SKIN. HARMFUL IF INHALED. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID BREATHING VAPOR OR SPRAY MIST. WEAR PROTECTIVE CLOTHING, RUBBER GLOVES, AND GOGGLES OR FACE SHIELD WHEN HANDLING. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

Fish may be killed by dosages in excess of 0.3 ppm.  
Avoid contact with or drift to desirable plants or crops as injury may result.  
Clean out application equipment after each operation.  
Not for use in brackish or salt water.  
Do not use water from treated areas for watering livestock, for preparing agricultural sprays for food crops, for irrigation, or for domestic purposes within the following periods:  
Up to 0.3 ppm— 7 days after application  
Up to 3.0 ppm—14 days after application  
Up to 5.0 ppm—25 days after application

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.  
**Storage Instructions:** Store in the original container. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. In the event of spillage during handling or storage, absorb with sand or other inert material and dispose of absorbent in accordance with the Pesticide Disposal Instructions listed below.  
**Pesticide Disposal Instructions:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use 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.

**Container Disposal Instructions:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EMERGENCY TELEPHONE NUMBERS:  
CHEMTREC: (800) 424-9300  
MEDICAL: (303) 623-5716 Rocky Mountain Poison Control Center

**WARRANTY AND DISCLAIMER**

Cerexagri warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the risks referred to therein. CEREXAGRI MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL CEREXAGRI OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, BUSINESS REPUTATION, OR CUSTOMERS; LABOR COST; OR OTHER EXPENSES INCURRED IN PLANTING OR HARVESTING.

Cerexagri and seller offer this product and the buyer and user accept it subject to the foregoing conditions of sale and warranty which may be varied only by agreement in writing signed by a duly authorized representative of Cerexagri.