


70506-175

10/14/2008

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 <p align="center"><b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b>  <b>Office of Pesticide Programs</b>  <b>Registration Division (7505P)</b>  <b>Ariel Rios Building</b>  <b>1200 Pennsylvania Ave., NW</b>  <b>Washington, D.C. 20460</b></p>	EPA Reg. Number: <b>70506-175</b>	Date of Issuance: <b>OCT 14 2008</b>
	Term of Issuance:	
NOTICE OF PESTICIDE: <input type="checkbox"/> Registration <input checked="" type="checkbox"/> Reregistration (under FIFRA, as amended)		Name of Pesticide Product: <b>Hydrothol 191 Aquatic Algicide and Herbicide</b>

Name and Address of Registrant (include ZIP Code):

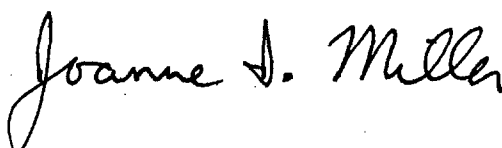
**United Phosphorous, Inc.**  
**630 Freedom Business Center, Suite 402**  
**King of Prussia, PA 19406**

**Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.**

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is reregistered in accordance with FIFRA section 4(g)(2)(C) provided you:

1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.
2. Per the acute toxicity review, the "IF ON SKIN" heading in the First Aid Statements must be revised to read "IF ON SKIN OR CLOTHING" and based on toxicity ranking the First Aid statements should be placed on the label in the following order:  
  
 "IF IN EYES:....  
 IF ON SKIN OR CLOTHING:....  
 IF SWALLOWED:....  
 IF INHALED:...."
3. The Agency recommends that additional text be added to the Note to Physician that addresses eye and skin irritation concerns.

Signature of Approving Official: Joanne I. Miller Product Manager 23 Herbicide Branch Registration Division (7505P)		Date:  <b>OCT 14 2008</b>
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4. Per the acute toxicity review and RED, the PPE section must be revised to read:

“Mixers, loaders, applicators, and other handlers must wear:

“Coveralls over long-sleeved shirt and long pants,  
Chemical-resistant footwear plus socks,  
Chemical-resistant gloves made of any waterproof material,  
Goggles or face shield,  
Chemical-resistant headgear for overhead exposure,  
Chemical-resistant apron when mixing, loading, or cleaning equipment, and  
A NIOSH-approved respirator with a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or any N, R, P or HE filter.  
Exception: during application, the respirator need not be worn, provided that the pesticide is applied in a manner (such as direct metering or subsurface release from the rear of a vessel that is moving into the wind) that the applicator will have no contact with the pesticide.

See engineering controls for additional requirements.”

5. The text “Wear protective clothing, rubber gloves, and goggles or face shield when handling” is incomplete and must be deleted from the Hazards to Humans and Domestic Animals section of the label.
6. Per the RED, the text “Aerial application is prohibited” must be added to the label.
7. The text “Hydrothol 191 is for use on the following aquatic weeds: Hydrilla, *Elodea canadensis*, Cabomba,\* Bur weed,\* Barzilian Elodea, Vallisneria and Hygrophilia\*” must be revised per the RED to read:

**“Lakes and Ponds (Except Irrigation Canals/Ditches):**

Use of endothall N, N-dimethylalkylamine salt is limited to algae and the following plants: Hygrophila\*, Vallisneria, Hydrilla, Cabomba\*, Bur weed\*, *Elodea canadensis*, and *Brazilian elodea*.”

8. Per the RED, the User Safety Recommendations text must be revised to read:

“-User should wash hands before, eating, drinking, chewing gum, tobacco, of using the toilet.  
-User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.  
-Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.”

9. Per the RED, the Environmental Hazard statements must be revised to read as specified below. The text "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" currently appearing on the label should be relocated to the directions for use.

"This pesticide is toxic to fish. This pesticide is toxic to wildlife. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters. Do not contaminate water, food, or feed by storage or disposal."

10. The text "Do not use where fish are important resources" must be added to the label.
11. Per the RED, the following text must be added to the label:

**Lakes and Ponds:** Do not contaminate water intended for irrigation or domestic purposes. Do not use water or domestic purposes until 25 days after treatment of 5 ppm, 14 days for treatment of 3 ppm, and 7 days for treatment of 0.3 ppm. Do not use treated water for animal consumption within 25 days of treatment of 5 ppm, 14 days for treatment of 3 ppm, and 7 days for treatment of 0.3 ppm. Do not use treated water for spraying or irrigation within 25 days of treatment of 5 ppm, 14 days for treatment of 3 ppm, and 7 days for treatment of 0.3 ppm. Do not use where fish are important resources. Do not treat more than 10% of the area at one time with doses in excess of 1 ppm.

**Irrigation and Drainage Canals:** Do not use water for domestic purposes until 25 days after treatment of 5 ppm, 14 days for treatment of 3 ppm, and 7 days for treatment of 0.3 ppm. Do not use treated water for animal consumption within 25 days of treatment of 5 ppm, 14 days for treatment of 3 ppm, and 7 days for treatment of 0.3 ppm. Do not use treated water for spraying or irrigation within 25 days of treatment of 5 ppm, 14 days for treatment of 3 ppm, and 7 days for treatment of 0.3 ppm. Do not use where fish are important resources. Do not treat more than 10% of the area at one time with doses in excess of 1 ppm."

12. Change "To the extent permitted by law" to read "To the extent consistent with applicable law", wherever it appears under the terms and conditions of use.

A stamped copy of your labeling is enclosed for your records. Please note that the final product reregistration cannot be considered until after all active ingredients in this product are eligible for reregistration. Submit one copy of the revised final printed label for the record before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Sincerely,

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

Enclosure

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated:**  
**OCT 14 2008**

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

# HYDROTHOL 191

## AQUATIC ALGICIDE AND HERBICIDE

ACTIVE INGREDIENT:		
Mono(N,N-dimethylalkylamine**) salt of endothall* .....	53.0%	20506-175
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 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.

**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.

**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(70506-175) EPA Establishment No. 4581-MI-1  
Cerexagri, Inc.  
630 Freedom Business Center, Suite 402 Net Contents \_\_\_\_\_  
King of Prussia, PA 19406  
1 800-438-6071

### DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift.

### 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.

Do not contaminate water intended for irrigation or domestic purposes.

#### **Streams, Rivers, Channeled Water:**

Do not use water for spraying or irrigation within 7 days after treatment.

#### **Drinking Water (Potable Water)**

- Consult with appropriate state or local water authorities before applying this product to public waters. State or local agencies may require permits. The drinking water (potable water) restrictions on this label are to ensure that consumption of water by the public is allowed only when the concentration of endothall in the water is less than the MCL (Maximum Contamination Level) of 0.1 ppm. Applicators should consider the unique characteristics of the treated waters to assure that endothall concentrations in potable drinking water do not exceed 0.1 ppm at the time of consumption.
- For applications of endothall, the drinking water setback distance from functioning potable water intakes is greater than or equal to 600 feet.
- Note: Existing potable water intakes that are no longer in use, such as those replaced by a connection to a municipal water system or a potable water well, are not considered to be functioning potable water intakes.

Do not contaminate water intended for irrigation or domestic purposes. Do not use treated water for animal consumption, for preparing agricultural sprays for food crops, for irrigation, or for domestic purposes within the following periods:

- 0.3 ppm— 7 days after application
- 3.0 ppm—14 days after application
- 5.0 ppm—25 days after application

### 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 for use on the following aquatic weeds: Hydrilla, *Elodea canadensis*, Cabomba\*, Bur weed\*, Brazilian Elodea, Vallisneria and Hygrophila\*. 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**

Algae or Weed	Rate (ppm)	Amount per Acre Ft.
Algae Planktonic, Filamentous Branched (Use in California limited to Cladophora, Pithophora, Spirogyra, Chara)	0.05-1.5	0.6-18.0 pints
Bur Reed*	2-3	2.7-4.0 gal.
Cabomba*	2-3	2.7-4.0 gal.
Brazilian Elodea	2-3	2.7-4.0 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.
Vallisneria	2-3	2.7-4.0 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.

**Personal Protective Equipment (PPE)**

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Socks and shoes
- a NIOSH-approved respirator with a dust/mist filter with MSHN/NIOSH approval number prefix TC-21C or any N, R, P, or He filter.  
Exception: During application, the respirator need not be worn, *provided* that the pesticide is applied in a manner (such as direct metering or subsurface release from the rear of a vessel that is moving into the wind) that the applicator will have no contact with the pesticide.
- Chemical resistant gloves
- Protective eyewear

See engineering controls for additional options.



**User Safety Requirements:**

Follow the manufacturers' instructions for cleaning/maintaining PPE. If no such instructions for washable exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them.

**Engineering Controls:**

When mixers and loaders use a closed system designed by the manufacturer to enclose the pesticide to prevent it from contacting handlers or other people AND the system is functioning properly and is used and maintained in accordance with the manufacturers written operating instructions, the handlers need not wear a respirator, provided the required respirator is immediately available for use in an emergency such as a spill or equipment breakdown.

**User Safety Recommendations:**

Users should:

- ~~Wear appropriate protective eyewear such as goggles, face shield, or safety glasses.~~
- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. This pesticide is toxic to wildlife.

Do not contaminate water by cleaning of equipment or disposal of equipment wash waters. Do not contaminate water, food, or feed by storage or disposal.

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.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide 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**

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials, resistant strains or other influencing factors in the use of the product. To the extent allowed by state law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Cerexagri, Inc., Manufacturer and Seller harmless for any claims relating to such factors. Cerexagri, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. TO THE EXTENT ALLOWED BY STATE LAW, CEREXAGRI, INC. AND MANUFACTURER MAKE NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent allowed by state law, in no event shall Cerexagri, Inc., Manufacturer or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT ALLOWED BY STATE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF CEREXAGRI, INC., MANUFACTURER AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR

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HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF CEREXAGRI, INC., MANUFACTURER OR SELLER, THE REPLACEMENT OF THE PRODUCT. Cerexagri, Inc., Manufacturer and Seller offer this product, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of Cerexagri, Inc.