

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

January 10, 2024

Zach Chesser Regional Regulatory Manager UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406

Subject: Notification per PRN 98-10 – Add NY State Specific Language Product Name: Hydrothol 191 Aquatic Algaecide and Herbicide EPA Registration Number: 70506-175 Application Date: August 31, 2023 Decision Number: 594778

Dear Zach Chesser:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped "NOTIFICATION" and placed in our records.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you have any questions, please contact Derek Corbin at 202-566-2571 or at Corbin.Derek@epa.gov.

Sincerely,

Kable Bo Davis Senior Regulatory Specialist Registration Division; OPP

{Note to reviewer: [Text] in brackets denotes optional text. {Text} in braces denotes where in the final label text will appear and notes to reviewer.}

HYDROTHOL 191 AQUATIC ALGAECIDE AND HERBICIDE **{ABN:}** [Teton Aquatic Algaecide and Herbicide]

For algae and aquatic plant control in quiescent, slow moving, and flowing water aquatic sites.

ACTIVE INGREDIENT:			
Mono (N,N-dimethylalkylamine) salt of endothall*	. 53.0%		
OTHER INGREDIENTS:	. 4 <u>7.0%</u>		
TOTAL	100.0%		
	A 44	 	

*7-oxabicyclo [2.2.1] heptane-2,3-dicarboxylic acid equivalent 23.36% Contains 2 lbs. endothall acid per gallon

KEEP OUT OF REACH OF CHILDREN PELIGRO DANGER

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

		FIRST AID		
IF IN EYES:		wly and gently with water for 15-20 minutes.		
	Call a poison control center	or doctor for treatment advice.		
IF ON SKIN OR	Take off contaminated cloth	ing.		
CLOTHING:	Rinse skin immediately with	plenty of water for 15-20 minutes.		
	Call a poison control center	or doctor for treatment advice.		
IF	Call a poison control center	or doctor immediately for treatment advice.		
SWALLOWED:	• 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 more	uth to an unconscious person.		
IF INHALED:	 Move person to fresh air. 			
	 If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably b mouth-to-mouth, if possible. 			
		or doctor for treatment advice.		
SAFETY: 1-866-6 FOR 24-HOUR C 424-9300. Probable mucosal	73-6671. HEMICAL EMERGENCY (Spill NOTH damage may contraindicate the use	TANCE CALL ROCKY MOUNTAIN POISON AND DRUG I, leaks, fire, exposure or accident) CALL CHEMTREC: 1-800- E TO PHYSICIAN of gastric lavage. Measures against circulatory shock, respiratory		
depression and con	vulsion may be needed.	formation Call 1-800-438-6071		
Down for Directions nside for additiona	.] [See inside for Precautionary State	-		
	ess Center, Suite 402 19406	EPA Registration No. 70506-175 EPA Establishment No		
xxxxxxV00x] Batch Code will be	placed on the container.]			
	NET CON	TENTS:		

NOTIFICATION

70506-175

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The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

01/10/2024

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. Wash thoroughly with soap and water after handling and before eating, drinking chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

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,
- Chemical-resistant headgear for overhead exposure,
- Protective eyewear,
- · Chemical-resistant apron when mixing, loading, or cleaning equipment,
- Wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSHapproved powered air purifying respirator with a 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) such that the applicator will have no contact with the pesticide.

Exception: When the product is applied in a manner in which the applicator will have no contact with the pesticide (such as direct metering or subsurface injection), coveralls need not be worn.

See Engineering Controls for additional requirements.

User Safety Requirements

Follow the manufacturers' instructions for cleaning/maintaining PPE. If no such instructions for washables 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 product's concentrate. Do not reuse them.

Engineering Controls

User should:

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 coveralls or respirator, provided the required coveralls and respirator are immediately available for use in an emergency such as a spill or equipment breakdown. When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

- Wash hands thoroughly 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

Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. This pesticide is highly toxic to fish and aquatic invertebrates. This pesticide is toxic to wildlife.

Treatment of algae and aquatic plants can result in oxygen loss from decomposition of dead algae and plants. This loss can cause fish suffocation. Water bodies containing very high algae or plant density should be treated in sections to prevent suffocation of fish.

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DIRECTIONS FOR USE

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

PRODUCT INFORMATION

Hydrothol 191 is a liquid concentrate algaecide/herbicide that is soluble in water. Apply when target algae and plants 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.

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

- When used as directed, phytotoxicity is not expected on plants or crops irrigated with Hydrothol 191 treated water, however, all species and cultivars (varieties) have not been tested.
- Undiluted Hydrothol 191 may be injurious to crops, grass, ornamentals or other foliage.
- Do not use Hydrothol 191 treated water for chemigation as interactions between Hydrothol 191 and other pesticides and fertilizers are not known.
- Do not use Hydrothol 191 in waters containing Koi or hybrid goldfish.
- Hydrothol 191 is not intended for use in small volume garden pond systems.
- Fish may be killed by dosages in excess of 0.3 parts per million (ppm).
- Do not use Hydrothol 191 in brackish or saltwater.
- · Wash out spray equipment with water after each operation.
- Contact of spray concentrate (product) directly or by drift with non-target plants or crops may result ininjury.
- Do not treat more than 10% of the area at one time with doses in excess of 1 ppm in slow moving or quiescent waters,
- In New York State no swimming until day after application (24 hours).

For use in irrigation canals:

UPL NA recommends not reducing Hydrothol 191 rates below those specified within this label when using Hydrothol 191 in irrigation systems in a treatment combination, or as a tank mix, with copper-based product(s), unless specified otherwise on this label or a UPL NA supplemental label.

HOW TO APPLY

Hydrothol 191 is a contact algaecide and herbicide. Apply when target algae and plants are present. Hydrothol 191 may be sprayed on the water or injected below the water surface. It may be applied as a concentrate or diluted with water depending on the equipment. Hydrothol 191 can be applied to floating algae mats as a surface application. In instances where the algae or plant(s) to be controlled is an exposed surface problem (i.e. some of the broad-leaved pond weeds) coverage is important. For best results, apply the concentrate with the least amount of water compatible with the application equipment.

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 acid in the water is less than the MCL (Maximum Contamination Level) of 0.1 ppm. Applicators must consider the unique characteristics of the treated waters to assure that endothall acid concentrations in potable drinking water do not exceed 0.1 ppm at the time of consumption.

For Lakes, Ponds, and other Quiescent Water Bodies

For Hydrothol 191 applications, the drinking water setback distance from functioning potable water intakes in the treated water body must be 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 waterintakes.

For Irrigation Canals and other Flowing Water Bodies:

Applicator is responsible to assure that treated water exceeding the MCL of 0.1ppm does not enter potable water intakes. For Hydrothol 191 applications, potable water intakes must be closed when treated water exceeding the MCL of 0.1ppm is present at the intake. In the event the water intake cannot be closed (when treated water is present that exceeds 0.1ppm), treatments must only be made downstream from the intake in order to assure Hydrothol 191 treated water above 0.1ppm does not enter the potable water system.

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QUIESCENT OR SLOW MOVING WATER TREATMENTS: SURFACE OR INJECTED APPLICATIONS

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 3.0 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.

FLOATING ALGAE MATS: Apply Hydrothol 191 when algae is actively growing. Spray Hydrothol 191 over-the-top of floating algae mats using a 3–5% spray solution (based on volume). Use a minimum of 0.5 gal. per surface acre with adequate water volume to assure complete coverage. When used in this manner, coverage is critical; only the algae sprayed will be controlled. Any submerged algae will require additional treatment as described in the ALGAE CONTROL section of this label. Results are usually observed in a few days on algae.

SUBMERGED AQUATIC PLANTS: Apply Hydrothol 191 at 1 to 5 ppm (1.4 gallons to 6.8 gallons per acre foot) for control of aquatic plants. Due to potential fish toxicity, Hydrothol 191 use for submerged aquatic plant control is suggested to be made only by commercial applicators as marginal or sectional treatments. Use application rates over 1.0 ppm only on very narrow margins or in areas where some fish kill is not objectionable.

RATES FOR SURFACE OR INJECTED	APPLICATIONS TO	OUIESCENT OR SLOW-MOVING WATER
RATES FOR SURFACE OR INJECTED	ALLEUATIONS TO	UTESCENT ON SLOW-MOVING WATEN

Algae or Plant	Rate ppm endothall acid	<u>W-MOVING WATER</u> Amount of Hydrothol 191 per Acre Ft.	
Algae Planktonic, Filamentous, Branched (Use in California limited to Cladophora, Pithophora, Spirogyra, Chara)	1 0.05-3.0	0.6-36 pints	
Aquatic Plan	its		
Fanwort, ^{a, b,c} Cabomba caroliniana	2-5	2.7-6.8 gal.	
Brazilian Elodea, Egeria densa	2-5	2.7-6.8 gal.	
Elodea, ^c Elodea canadensis	2-5	2.7-6.8 gal.	
Hydrilla, <i>Hydrilla verticillata</i>	1-5	1.4-6.8 gal.	
Hygrophila, ^{a, b,c} Hygrophila polysperma	2-5	2.7-6.8 gal.	
Eelgrass, ^c Vallisneria americana	2-5	2.7-6.8 gal.	
Coontail, ^c Ceratophyllum spp.	1.5-5	2.0-6.8 gal.	
Horned Pondweed, ^c Zannichellia palustris	1.5-5	2.0-6.8 gal.	
Milfoil, ^c Myriophyllum spp.	1.5-5	2.0-6.8 gal.	
Sago Pondweed, ^c Stuckenia pectinata	1.0-5	1.4-6.8 gal.	
Naiad, ^c <i>Najas</i> spp.	1.5-5	2.0-6.8 gal.	
Pondweed, ^c Potamogeton spp.	0.75-5	1.0-6.8 gal.	
Including: American, P. nodosus Largeleaf (Bass Weed), P. amplifolius Curlyleaf, P. crispus Flatstem, P. zosteriformis Floating-leaf, P. natans Illinois, P. illinoensis Narrowleaf, P. pusillus Threadleaf, P. filiformis Variable Leaf, P diversifolius	$\begin{array}{c} 1.5-5\\ 1.5-5\\ 0.75-5\\ 1.5-5\\ 1.0-5\\ 1.25-5\\ 1.0-5\\ 1.5-5\\ 1.0-5\\ 1.5-5\\ 1.0-5\end{array}$	2.0-6.8 gal. 2.0-6.8 gal. 1.0-6.8 gal. 1.4-6.8 gal. 1.4-6.8 gal. 1.4-6.8 gal. 2.0-6.8 gal. 1.4-6.8 gal.	
Water Stargrass, ^{a,c} <i>Heteranthera</i> spp.	1.5-5	2.0-6.8 gal.	

Water Stargrass, "Heteraniner

a Not for this use in California

^b Suppression only

^c Not for this use in New York

FLOWING WATER TREATMENTS: DRIP OR METERING SYSTEMS

For algae and aquatic plant control in flowing water, Hydrothol 191 use rates can be found in the following chart. Apply Hydrothol 191 in a manner to achieve the desired rate and adequate mixing so Hydrothol 191 is distributed throughout the entire water column. Adequate concentration (rate) and exposure time (length of treatment) will impact Hydrothol 191 efficacy on the target algae and plant species. Although Hydrothol 191 is a contact algaecide and herbicide, adequate exposure time is critical.

The following rate chart has been developed based on Concentration Exposure Time (CET) data for Hydrothol 191. The CET concept allows rates and the length of exposure to be adjusted for different treatment scenarios.

FLOATING ALGAE MATS: Apply Hydrothol 191 when algae is actively growing. Spray Hydrothol 191 over-the-top of floating algae mats using a 3–5% spray solution (based on volume). Use a minimum of 0.5 gal. per surface acre with adequate water volume to assure complete coverage. When used in this manner, coverage is critical; only the algae sprayed will be controlled. Any submerged algae will require additional treatment as described in the ALGAE CONTROL section of this label. Results are usually observed in a few days on algae.

RATES FOR DRIP OR METERING APPLICATION TO FLOWING WATER:

Target Species	Rate ppm endothall acid	Duration	Restrictions
Algae: Planktonic, Filamentous, Branched	0.05 - 3.0	6 – 120 hours	A maximum of 30 ppm per growing
(Use in California limited to <i>Cladophora</i> , <i>Pithophora</i> , <i>Spirogyra</i> , <i>Chara</i>)			season, not to exceed 5 ppm per application.
Plants:	0.2 - 5	6 – 120 hours	Do not apply more than a total of 5
Fanwort, ^{a,b,c} Cabomba caroliniana			ppm within a 7-day interval.
Coontail, ^c Ceratophyllum spp.			There is no Pre- harvest Interval
Elodea, ^c <i>Elodea canadensis</i> Hydrilla, <i>Hydrilla verticillata</i>			(PHI) for crops irrigated with treated water.
Hygrophila, ^{a,b,c} Hygrophila polysperma			
Milfoil, ^c Myriophyllum spp.			
Naiad, ^c <i>Najas</i> spp.			
Pondweed, ^c Potamogeton spp.			
Water Stargrass, ^{a,c} Heteranthera spp.			
Eelgrass, ^c Vallisneria americana			
Horned Pondweed, ^c Zannichellia palustris			
Sago Pondweed, ^c Stuckenia pectinata			

^a Not for this use in California

^b Suppression only

^c Not for this use in New York

Restriction for flowing waters used for irrigation of food crops: Do not apply more than 30 ppm per growing season, not to exceed 5 ppm per application. Do not apply more than a total of 5 ppm within a 7-day interval.

Note: There is no Pre-harvest Interval (PHI) for crops irrigated with treated water.

To calculate the amount of Hydrothol 191 required for a particular treatment use the following formula:

[Cubic Feet per Second (CFS) X Length of Treatment (hrs) X rate (ppm)] x 0.11198 = Gallons of Hydrothol 191 needed for treatment

To calculate the amount of Hydrothol 191 to be applied per hour use the following formula:

Gallons of Hydrothol 191 per hour = Total gallons of Hydrothol 191 / Length of Treatment (hrs)

STORAGE AND DISPOSAL

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

Pesticide Storage: 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 a spill during handling or storage, absorb with sand or other inert material and dispose of absorbent in accordance with the Pesticide Disposal instructions listed below.

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Pesticide Disposal: 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 Handling:

(for Nonrefillable containers)

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container promptly after emptying.

For containers 5 gallons or less:

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¹/₄ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Or

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For containers more than 5 gallons:

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Or

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Pour or pump rinsate into application equipment or rinsate collection system. Drain for 10 seconds after the flow begins to drip.

Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

(for Refillable containers)

Refillable container. Refill this container with pesticide only. Do not use this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water.

Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

IMPORTANT INFORMATION READ BEFORE USING PRODUCT

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks 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 or other influencing factors in the use of the product, which are beyond the control of UPL NA Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of UPL NA Inc. and Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold UPL NA Inc. and Seller harmless for any claims relating to such factors.

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