PM 23 458-172

14.2

GRANULAR AQUATIC ALGICIDE AND HERBICIDE

ACTIVE INGREDIENT

Mono(N,N-dimethylalkylamine*) salt of endothail INERT INGREDIENTS

*Alkyl groups as derived from Coconut Oll
*17-oxabicyclo [2,2.1] heptane-2,3-dicarboxylic acid equivalent 5%

KEEP OUT OF REACH OF CHILDREN

STATEMENT OF PRACTICAL TREATMENT.

IF IN EYES, hold eyelids open and flush with a steady, gentle stream of water for 15 min-

utes. Call a physician.

IF SWALLOWED, drink promptly a large quantity of milk, egg whites, gelatin solution or it these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

IF ON SKIN, immediately liush with plenty of water for at least 15 minutes. Remove and

NOTE TO PHYSICIAN. Probable mucosel damage may contraindicate the use of gastrio lavage. Measures against circulatory shock, respiratory depression and convulsion may



A Registration No. 4581-172 A Establishment No. 228-IL-1

.40°Lbs∴Net Weight ः

AGCHEM*DIVISION—ATOCHEM NORTH AMERICA

Philadelphia, PA-19102

BEST COPY AVAILABLE

ACCEPTED

APR 0 2 1991

11.2%

... 88.8%

Us for the Federal Insecticide. EPA Reg No 458/-17

PRECAUTIONARY STA EMENTS

HAZARDS TO HUN INS (AND DOMESTIC ANI IALS)

DANGER

CORROSIVE. CAUSES IRRE' ERSIBLE EYE DAMAGE. HARMFUL IF SW. LOWED, ABSORBED THROUGH SKIN OR IN HALED. AVOID CONTACT WITH SKIN OR CLOT HING, DO NOT GET IN EYES. WEAR GOGGLES OR FACE SHIELD WHEN HANDLING. Avoic breathing dust, Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Avoid contact with or-drift to other crops or plants as injury may result.

Fish will be killed by dosages in excess of 0.3 ppm. Do not use where fish are important resources. Do not use fish from treated areas for food or feed within three days after treatment.

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

GENERAL INFORMATION

HYDROTHOL 191 Granular is a highly effective algicide and aquatic weed killer for use in irrigation and drainage canals, lakes and ponds to control the following weeds and algae. Najas, Elodea, Coontait, Potamogeton, Milfoit sp., Zannichellia, Vallisneria, Cladophora, Spirogyra, Pithophora and Chara, when weeds are actively growing. Dosage rates indicated are measured in "Parts per Million" (ppm). I ppm as a dosage rate means that there would be 1 part endothall (acid) in 1.000,000 parts of water. Thoroughly clean application equipment immediately after use.

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.

DIRECTIONS FOR USE

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

IRRIGATION AND DRAINAGE CANALS

HEAVY INFESTATIONS—Eventy spread 160 to 270 lbs. HYDROTHOL 191 Granular per acre loot of water (3.0 to 5.0 ppm) with suitable aerial or ground equipment.

MODERATE OR LIGHT INFESTATIONS—Use 55 to 110 lbs. per acre foot HYDROTHOL 191 Granular (1 0 to 2 0 ppm) applied evenly.

Pounds of HYDROTHOL 191 Granular required per mile of canal or swath, 1 ft. deep.

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WIDTH OF CANAL, DITCH OR SWATH							
ppm	10	15	20	30	40		
0.5	33	49	65	95	130		
1.0	65	98	130	190	260		
2.0	130	195	260	380	520		
3.0	195	294	390	570	780		
4.0	260	392	520	760	1040		
5.0	325	490	650	950	1300		
Note: 5	.5 lbs. pe	r acre foot	equals (0.1 ppm of	Endothall		

LAKES AND PONDS

(acid).

ALGAE CONTROL—Cladophora, Pithophora, Spirogyra, and Chara can be controlled by even applications of 3 lbs. to 11 lbs. HYDROTHOL 191 Granular per acre foot (0.05 to 0.2 ppm) applied by suitable air or water equipment. HYDROTHOL 191 Granular is especially effective on bottom growth control. Pithophora may require 0.2 ppm or higher. Dosages may be increased to 27-82 lbs. of HYDROTHOL 191 Granular (0.5 to 1.5 ppm) where greater longevity of control is desired and for marginal treatments. For floating mats. HYDROTHOL 191 Granular should be scattered as evenly as possible over the mat. Repeat treatments when algal growth reappears.

SUBMERGED AQUATICS—Due to the toxicity to fish, the use of HYDRO-THOL 191 Granular for submerged aquatics is suggested only by commercial applicators on a marginal or sectional treatment basis. Use 27 to 136 lbs. HYDROTHOL 191 Granular per acre foot (0.5 to 2.5 ppm) scattered evenly as possible. Use dosages over 1.0 ppm on narrow margins or in areas where some fish kill is not objectionable.

Do not treat more than 1/10 of the lake or pond at one time with doses in excess of 1.0 ppm. Approximate pounds of HYDROTHOL 191 Granular for one acre* treatment at various depths and ppm concentrations.

	PPM Concentrations								
	0 05	0.1	0.2	0.5	1.0	1.5	5.0		
Depth	ppm	ppm	ppm	ppm	ppm	ppin	ppm -		
1 ft	3	5	11	27	54	82	250		
2 ft.	5	11	22	54	109	163	550		
4 ft.	11	22	44	109	217	326	1100		
6 ft.	16	33	65	163	326	489	1650		

*One acre equals approximately 208" x 208".

FOR USE ON RICE IN CALIFORNIA ONLY

HYDROTHOL 191 GRANULAR is a formulation of a submersed aquatic weed killer for use in rice fields to control Southern Naiad (Najas guadalupensis). American Pondweed (Potamogeton noossus), Horned Pondweed (Zannichellia palustris). Sago Pondweed (Potamogeton pectinalus), and Coontail (Caralophyllium damersum).

TIME OF APPLICATION

Apply 25 to 60 days after sowing, when aquatic weeds are present. Do not apply before rice emerges above surface of water. Do not apply after rice starts heading. Do not apply HYDROTHOL 191 GRANULAR more than once yearly

MATE OF APPLICATION

The ideal average depth of water at time of application is 6 to 8 inches; however, based on depth, use rates as follows:

Depth of Water in Inches	Los Hydrothul 191 Granular Per Acre	ppm Acid Equivalent
4-6	40	2.2-1.5
6-8	50	1.9-1.4
8-10	60	1.7-1.4

APPLICATION EQUIPMENT

Apply with ground or air equipment designed for uniform distribution of granules. Clean out application equipment after each use.

Necessary approval and/or permits should be obtained if required. Consult State Fish and Game agencies before applying this product.

Do not release water from flooded fields within 10 days of application. Carefully read regular product label and follow appropriate precautions and directions.

STORAGE AND DISPOSAL

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

Storage Instructions: Store in the original container, preferably in a locked storage area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

Pesticide Disposal Instructions: Pesticide wastes are acutely hazardous, improper disposal of excess pesticide 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 nut of smoke.

WARRANTY AND DISCLAIMER

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