

HYDROTHOL[®] 191

GRANULAR AQUATIC ALGICIDE AND HERBICIDE

ACTIVE INGREDIENT:

Mono(N,N-dimethylalkylamine*) salt of endothall** 11.2%

OTHER INGREDIENTS: 88.8%

TOTAL 100.0%

*Alkyl groups as derived from Coconut Oil

**7-oxabicyclo [2.2.1] heptane-2,3-dicarboxylic acid equivalent 5%

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID:

IF IN EYES, hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Call a physician.

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

IF ON SKIN, immediately flush with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before reuse.

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

See Back Panel for Additional Precautionary Statements

EPA Registration No. 4581-172

EPA Establishment No. 4581-MI-1

Net Weight _____

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

DANGER

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN OR INHALED. AVOID CONTACT WITH SKIN OR CLOTHING. DO NOT GET IN EYES. WEAR GOGGLES OR FACE SHIELD WHEN HANDLING. Avoid 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 may be killed by dosages in excess of 0.3 ppm. 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 contact algicide and aquatic herbicide 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.

DIRECTIONS FOR USE

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

LAKES AND PONDS

ALGAE CONTROL: HYDROTHOL 191 Granular is effective on a broad range of algae including: Zannichellia, Cladophora, Pithophora, Spirogyra, Chara, Nitella, Chorella, Hydrodictyon, Oscillatoria, Zygnema, Chlamydomas, Selenastrum, Anabaena, Oedogonium, Anacystis, Coelastrum, Pediastrum, Rhizoclonium, and Scenedesmus. Note: Susceptibility of algae may vary due to subspecies, strains or environmental conditions. Generally, rates of 0.05 to 0.3 ppm (3-43 lbs. per acre foot) are effective for the control of planktonic, filamentous and branched algae. Repeat applications when algae reappears and reaches 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. For floating mats HYDROTHOL 191 Granular should be applied as evenly as possible.

SUBMERGED AQUATIC PLANTS: Apply HYDROTHOL 191 Granular at 0.5 to 3.0 ppm (27 lbs. to 162 lbs. per acre foot) for control of aquatic weeds. HYDROTHOL 191 Granular is effective on a broad range of aquatic weeds including: Hydrilla, Hygrophylla, Naiad, Elodea canadensis, Egera densa, Coontail, Bur Reed, Milfoil, Pondweed (Potamogeton spp.) and Water Stargrass. Due to the toxicity to fish, the use of HYDROTHOL 191 Granular 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 on very 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.

RATE OF APPLICATION: LAKES AND PONDS

Algae or Weed	Rate (ppm)	Pounds per Acre Ft.
Algae Planktonic Filamentous Branched	0.05-1.5 ppm*	3-81 lbs.
Bur Reed	2-3 ppm	108-162 lbs.
Cabomba	2-3 ppm	108-162 lbs.
Coontail	0.5-1.5 ppm	27-81 lbs.
Egeria densa	2-3 ppm	108-162 lbs.
Elodea canadensis	2-3 ppm	108-162 lbs.
Hydrilla	1-2 ppm	54-108 lbs.
Hygrophylla	2-3 ppm	108-163 lbs.
Milfoil	1-2 ppm	54-108 lbs.
Naiad (Najas spp.)	1-1.5 ppm	54-81 lbs.
Pondweed (Potamogeton spp.)	0.5-2 ppm	27-108 lbs.
Water Stargrass	2-3 ppm	108-163 lbs.

*See specific use instructions under Algae Control

Low rates of 0.05-0.2 ppm should be used on light infestation of planktonic and filamentous algae. Higher rates should be used for branched algae species. Moderate algae infestations generally require 0.2-0.5 ppm. Marginal treatments require 0.3-0.8 ppm.

RATE OF APPLICATION: IRRIGATION AND DRAINAGE CANALS

Algae Controlled: Planktonic filamentous and branched algae, including: Zannichellia, Cladophora, Pithophora, Spirogyra, Chara, Nitella, Chorella, Hydrodictyon, Oscillatoria, Zygnema, Chlamydomas, Selenastrum, Anabaena, Oedogonium, Anacystis, Coelastrum, Pediastrum, Rhizoclonium, and Scenedesmus. Submerged aquatic plants controlled: Hydrilla, Hygrophylla, Naiad, Elodea canadensis, Egera densa, Coontail, Bur Reed, Milfoil, Pondweed (Potamogeton spp.) and Water Stargrass. Due to fish toxicity, application utilizing rates higher than 0.3 ppm should be made by commercial applicators only.

HEAVY INFESTATIONS—Apply 3 to 5 ppm (160 to 270 lbs.) HYDROTHOL 191 Granular per acre foot of water with suitable aerial or ground application equipment.

MODERATE OR LIGHT INFESTATIONS—Apply 1 to 2 ppm (55 to 110 lbs.) HYDROTHOL 191 Granular per acre foot of water with suitable aerial or ground application equipment.

IRRIGATION AND DRAINAGE CANAL APPLICATIONS

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

ppm	WIDTH OF CANAL, DITCH OR SWATH				
	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. per acre foot equals 0.1 ppm of Endothall (acid).

LAKE AND POND APPLICATIONS

Depth	PPM Concentrations						
	0.05 ppm	0.1 ppm	0.2 ppm	0.5 ppm	1.0 ppm	1.5 ppm	5.0 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'

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 out of smoke.

EMERGENCY TELEPHONE NUMBERS:

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

WARRANTY AND DISCLAIMER

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