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AQUATIC ALGICIDE AND HERBICIDE

ACTIVE INGREDIENT
Mono(N,N-dimethylalkylamine**) sait of endothall*
INERT INGREDIENTS

47.0%

100.0%

TOTAL

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

POISON & **№ DANGER**

STATEMENT OF PRACTICAL TREATMENT

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

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

IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Call a physician.

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 Side Panet for Additional Precautionary Statements

EPA Registration No. 4581-174 EPA Establishment No. 4581-TX-1

Net Contents ____ Gallons/___

Liters

AGCHEM DIVISION - ATOCHEM NORTH AMERICA:

Philade'phia, PA 19102

ACCEPTED

APR 0 2 1991

Under the Fedrical Insectionde, Funca . a. and Rodenticide Act, too too the pesticide

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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 to control the following weeds and algae: Najas, Elodea, Coontail, Potamogeton, Milfoil sp., Zannichellia, Vallisneria, Cladophora, Pithophora, Spirogyra, and Chara, when weeds are actively growing. Dosage rates indicated are measured in "Parts per Million" (ppm). 1.0 ppm as a dosage rate means that there would be 1 part endothall (acid) in 1,000,000 parts of water.

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

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.

HEAVY INFESTATION—Apply at 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 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

| | Width of Ditch or Canal in Feet | | | | | | | | | |
|---------|---------------------------------|-----|-----|-----|-----|------|------|------|------|------|
| ppm | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | ŚU | 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 | 4.6 | 10.8 |
| 4.0 ppm | 2.6 | 3.9 | 5.2 | 6.6 | 7.8 | 9.1 | 10.4 | 11.8 | 13.1 | 16.4 |
| 5.0 ppm | 3.2 | 49 | 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).

BEC. Inviter a count

LAKES AND PONDS

ALGAE CONTROL: Cladophora, Pithophora, Spirogyra, and Chara can be controlled with applications of 0.6 to 2.2 pints per acre foot (0.05 to 0.2 ppm) applied as a uniform surface spray of injected under water surface. Pithophora may require 0.2 ppm or higher. Dosages may be increased to 0.4 to 1.1 gals (0.3 to 0.8 ppm) where greater longevity of control is desired and for marginal treatments. Repeat treatments when algal growth reappears.

SUBMERGED AQUATICS: Due to the toxicity to fish, the use of HYDRO-THOL 191 for submerged aquatic weeds is suggested only by commercial applicators on a marginal or sectional rather than overall type treatment. Use 0.7 to 3.4 gals. per acre foot (0.5 to 2.5 ppm) on a marginal treatment either sprayed on or injected below the surface. Use desages 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.

APPROXIMATE QUANTITY OF HYDROTHOL 191 FOR ONE ACRE. TREATMENT

| | Dosages for Various Concentrations in ppm | | | | | | | | | | |
|-------|---|---------|----------|---------|---------|---------|---------|----------|-----------|--|--|
| Depth | 0 05 | 0.1 | 02 | 0.3 | 0.5 | 0.8 | 1.0 | 2.0 | خ ن | | |
| 1 ft. | 0.6 pts | 1.1 pts | 2.2 pts | .4 gal | .7 gal | 1.1 gal | 1.4 gal | 2.7 gal | 6.8 301 | | |
| 2 ft. | 1.1 pts | 2.2 pts | 4.3 pts | 8 gai | 1.4 gal | 2.2 gaf | 2 8 gai | 5.4 gal | 13.6.72 | | |
| 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 | امل کا:43 | | |

^{*}One acre equals approximately 208' x 208'

WARRANTY AND DISCLAIMER

Atochem North America warrants that this material conforms to the chemical description on the label and is reasonably lit for the purposes referred to in the Directions for Use, subject to the risks referred to therein. ATOCHEM MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL ATOCHEM 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 CTHER EXPENSES INCURRED IN PLANTING OR HARVESTING.

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



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

DANGER

FATAL IF ABSORBED THROUGH SKIN. MAY BE FATAL IF SWALLOWED. CORROSIVE, CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS. HARMFUL IF INHALED. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. 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. Avoid breathing spray mist.

ENVIRONMENTAL HAZARDS

Fish will be killed by dosages in excess of 0.3 ppm. Do not use where fish are important resources.

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

Clean out application equipment after each operation.

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

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 viastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes gannot 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 sia e and local authorities, by burning. If burned, stay ou, of smoke.

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