



DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER BUREAU

**AQUATIC PESTICIDES AND RELATED PRODUCTS
CURRENTLY APPROVED FOR USE IN WATERS OF THE STATE**

The following products are currently registered with the U.S. Environmental Protection Agency (USEPA) and the Michigan Department of Agriculture (MDA), and have been approved for use in the waters of the state by the Michigan Department of Environmental Quality (MDEQ). A permit may be required prior to treatment. Additional products may be approved in the future, pending registration with USEPA and MDA and satisfactory review by MDEQ.

BRAND NAME	MANUFACTURER	Liquid or Granular	EPA REGISTRATION NUMBERS	MAXIMUM APPLICATION RATE ¹
<i>Reminder: You should confirm that the product you purchase is labeled for your application site.</i>				
+ Indicates that product is in the process of being discontinued and supplies may be limited.				
ALGAECIDES				
CHELATED COPPER				
ALGAE PRO LIQUID COPPER ALGAECIDE+	SEPRO	L	55146-42-67690	0.7 gal/acre-foot, 1.7 gal/acre-foot (macroalgae only)
ALGIMYCIN PWF	APPLIED BIOCHEMISTS	L	7364-9-8959	1.06 gal/acre-foot, 2.13 gal/acre-foot (macroalgae only)
CAPTAIN LIQUID COPPER ALGAECIDE	SEPRO	L	67690-9	0.6 gal/acre-foot, 1.2 gal/acre-foot (macroalgae only)
CUTRINE-PLUS ALGAECIDE/HERBICIDE	APPLIED BIOCHEMISTS	L	8959-10	0.6 gal/acre-foot, 1.2 gal/acre-foot (macroalgae only)
CUTRINE-PLUS GRANULAR ALGAECIDE	APPLIED BIOCHEMISTS	G	8959-12	60 lbs/acre
CUTRINE ULTRA	APPLIED BIOCHEMISTS	L	228-378-4581	0.6 gal/acre-foot, 1.2 gal/acre-foot (macroalgae only)
FORMULA F-30	DIVERSIFIED WATERSCAPES, INC	L	27588-2	2.0 gal/acre-foot
K-TEA ALGAECIDE	GRIFFIN LLC	L	1812-307	0.7 gal/acre-foot, 1.7 gal/acre-foot (macroalgae only)
COPPER				
AQUA SOLUTIONS	LIFESPAN LLC	L	64962	0.33 gal/acre-foot, 0.55 gal/acre-foot (macroalgae only)
COPPER SULFATE ²	VARIOUS	G	various	2.6 lbs/acre-foot, 4.4 lbs/acre-foot (macroalgae only)
EARTHTEC	EARTH SCIENCE LABORATORIES, INC.	L	64962-1	0.33 gal/acre-foot, 0.55 gal/acre-foot (macroalgae only)
ENDOTHALL, AMINE SALTS				
HYDROTHOL 191 AQUATIC ALGICIDE & HERBICIDE	CEREXAGRI INC	L	4581-174	2.2 pints/acre-foot
HYDROTHOL 191 AQUATIC ALGICIDE & HERBICIDE+	ELF ATOCHEM N. AMER., AG. CHEM.	L	4581-174	2.2 pints/acre-foot
HYDROTHOL 191 GRANULAR AQUATIC ALGICIDE & HERBICIDE ³	CEREXAGRI INC	G	4581-172	11 lbs/acre-foot
HYDROTHOL 191 GRANULAR AQUATIC ALGICIDE & HERBICIDE+ ³	ELF ATOCHEM N. AMER., AG. CHEM.	G	4581-172	11 lbs/acre-foot
SODIUM CARBONATE PEROXYHYDRATE				
GREENCLEAN PRO	BIOSAFE SYSTEMS LLC	G	70299-6	9 lbs/acre-foot, 90 lbs/acre-foot (heavy algae growth)
PAK 27 ALGAECIDE	SOLVEY CHEMICALS, INC	G	68660-9	16.9 lbs/acre-foot
PHYCOMYCIN SCP ALGAECIDE AND OXIDIZER	APPLIED BIOCHEMISTS	G	68660-9-8959	16.9 lbs/acre-foot

BRAND NAME	MANUFACTURER	Liquid or Granular	EPA REGISTRATION NUMBERS	MAXIMUM APPLICATION RATE ¹
HERBICIDES				
2,4-DICHLOROPHENOXYACETIC ACID (2,4-D)				
AQUACIDE PELLETS ³	AQUACIDE COMPANY	G	5080-2	100 lbs/acre (milfoil), 200 lbs/acre (coontail, lilies)
AQUA-KLEEN ³	CEREXAGRI INC	G	228-378-4581	100 lbs/acre (milfoil), 200 lbs/acre (coontail, lilies)
NAVIGATE ³	APPLIED BIOCHEMISTS	G	228-378-8959	100 lbs/acre (milfoil), 200 lbs/acre (coontail, lilies)
CHELATED COPPER				
COPPER EDA AQUATIC HERBICIDE	APPLIED BIOCHEMISTS	L	8959	3.34 gal/acre-foot
KOMEEN AQUATIC HERBICIDE	GRIFFIN LLC	L	1812-312	3.34 gal/acre-foot
NAUTIQUE AQUATIC HERBICIDE	SEPRO	L	67690-10	3.0 gal/acre-foot
DIQUAT DIBROMIDE⁴				
REWARD LANDSCAPE AND AQUATIC HERBICIDE	ZENECA AG PRODUCTS (SYNGENTA)	L	10182-404	2 gal/acre
REWARD ACCUGEL AQUATIC HERBICIDE	SYNGENTA	L	100-1194	1.25 gal/acre-foot
WEEDTRINE -D- AQUATIC HERBICIDE	APPLIED BIOCHEMISTS	L	8959-9	10 gal/acre
ENDOTHALL, AMINE/DIPOTASSIUM SALTS				
AQUATHOL GRANULAR AQUATIC HERBICIDE+ ³	ELF ATOCHEM N. AMER., AG. CHEM.	G	4581-201	81 lbs/acre-foot
AQUATHOL K AQUATIC HERBICIDE+	ELF ATOCHEM N. AMER., AG. CHEM.	L	4581-204	1.9 gal/acre-foot
AQUATHOL K AQUATIC HERBICIDE	CEREXAGRI INC	L	4581-204	1.9 gal/acre-foot
AQUATHOL SUPER K GRANULAR AQUATIC HERBICIDE ³	CEREXAGRI INC	G	4581-388	13.2 lbs/acre-foot
AQUATHOL SUPER K GRANULAR AQUATIC HERBICIDE+ ³	ELF ATOCHEM N. AMER., AG. CHEM.	G	4581-388	13.2 lbs/acre-foot
HYDROTHOL 191 AQUATIC ALGICIDE & HERBICIDE	CEREXAGRI INC	L	4581-174	1 gal/acre
HYDROTHOL 191 AQUATIC ALGICIDE & HERBICIDE+	ELF ATOCHEM N. AMER., AG. CHEM.	L	4581-174	1 gal/acre
HYDROTHOL 191 GRANULAR AQUATIC ALGICIDE & HERBICIDE ³	CEREXAGRI INC	G	4581-172	dependent on target species (see product label) and MDEQ approval
HYDROTHOL 191 GRANULAR AQUATIC ALGICIDE & HERBICIDE+ ³	ELF ATOCHEM N. AMER., AG. CHEM.	G	4581-172	dependent on target species (see product label) and MDEQ approval
FLURIDONE				
AVAST! AQUATIC HERBICIDE	GRIFFIN LLC	L	1812-435	6 parts per billion
AVAST! SRP AQUATIC HERBICIDE	GRIFFIN LLC	G	1812-447	6 parts per billion
SONAR A.S.	SEPRO	L	67690-4	6 parts per billion
SONAR PR PRECISION RELEASE	SEPRO	G	67690-12	6 parts per billion
SONAR Q	SEPRO	G	67690-3	6 parts per billion
SONAR SRP	SEPRO	G	67690-3	6 parts per billion
GLYPHOSATE				
ACCORD CONCENTRATE	DOW AGROSCIENCES LLC	L	62719-324	6.0 pints/acre
ACCORD CONCENTRATE HERBICIDE	MONSANTO AGRICULTURAL PROD CO	L	524-343	6.0 pints/acre
AQUAMASTER HERBICIDE	MONSANTO AGRICULTURAL PROD CO	L	524-343	6.0 pints/acre
AQUANEAT AQUATIC HERBICIDE	CEREXAGRI INC	L	228-365-4581	6.0 pints/acre
AQUANEAT AQUATIC HERBICIDE	NUFARM INC	L	524-343-71368	6.0 pints/acre
AQUAPRO HERBICIDE	SEPRO	L	62719-324-67690	6.0 pints/acre
AQUA STAR	ALBAUGH, INC	L	42750-59	6.0 pints/acre
EAGRE AQUATIC HERBICIDE	GRIFFIN LLC	L	352-609-1812	6.0 pints/acre

BRAND NAME	MANUFACTURER	Liquid or Granular	EPA REGISTRATION NUMBERS	MAXIMUM APPLICATION RATE ¹
<u>HERBICIDES (CONTINUED)</u>				
GLYPHOSATE (CONTINUED)				
GLYFOS AQUATIC HERBICIDE	CHEMINOVA AGRO APS; C/O CHEMIN	L	4787-34	6.0 pints/acre
GLYPRO	DOW AGROSCIENCES LLC	L	62719-324	6.0 pints/acre
RODEO	DOW AGROSCIENCES LLC	L	62719-324	6.0 pints/acre
RODEO EMERGED AQUATIC WEED & BRUSH HERBICIDE	MONSANTO AGRICULTURAL PROD CO	L	524-343	6.0 pints/acre
SHORE-KLEAR AQUATIC HERBICIDE	APPLIED BIOCHEMISTS	L	228-365-8959	6.0 pints/acre
IMAZAPYR				
HABITAT HERBICIDE	BASF CORPORATION	L	241-426	dependent on target species (see product label) and MDEQ approval
TRICLOPYR				
RENOVATE 3	SEPRO	L	62719-37-67690	1.4 gal/acre-foot
<u>SWIMMER'S ITCH</u>				
COPPER SULFATE				
COPPER SULFATE CRYSTALS ⁵	CHEM ONE LTD	G	56576-1	2 lbs/100 sq. foot
TRIANGLE BRAND COPPER SULFATE CRYSTAL ⁵	PHELPS DODGE REFINING CORP	G	1278-8	2 lbs/100 sq. foot
<u>OTHER</u>				
ADJUVANTS, SINK/DRIFT CONTROL				
AGRI-DEX	HELENA CHEMICAL COMPANY	L	N/A	4.0 pints/acre
CYGNET PLUS	BREWER INTERNATIONAL	L	N/A	2.5 pints/acre-foot
POLYAN	BREWER INTERNATIONAL	L	N/A	1.0 gal/acre-foot
TOPFILM	BIOSORB INC	L	N/A	1.0 pint/acre
SHADE PRODUCTS (DYES)				
DYE PRODUCTS LABELED AS HERBICIDES⁶				
ADMIRAL LIQUID	BECKER UNDERWOOD	L	67064-2	0.25 gal/acre-foot
ADMIRAL WSP	BECKER UNDERWOOD	G	67064-1	0.25 gal/acre-foot
AQUASHADE AQUATIC PLANT GROWTH CONTROL	APPLIED BIOCHEMISTS	L	33068-1	0.25 gal/acre-foot
HYDROBLOCK PLANT GROWTH CONTROL	LESCO INC	L	33068-1-10404	0.25 gal/acre-foot
POND CARE ALGAE BLOCKER	AQUARIUM PHARMACEUTICALS INC	L	8709-6	0.25 gal/acre-foot
DYE PRODUCTS NOT LABELED AS HERBICIDES (MANY)				
EXAMPLE: CYGNET SELECT	CYGNET ENTERPRISES	L	N/A	0.25 gal/acre-foot
FORMULA F-40	DIVERSIFIED WATERSCAPES, INC.	L	N/A	0.25 gal/acre-foot

¹ Maximum rate generally approved by the MDEQ. Actual rate required for control may depend on the target species and other site-specific conditions. Refer to product label.

² Various copper sulfate products registered with the MDA (517-373-1087) may be used.

³ Granular endoathall and granular 2,4-D products may not be applied within 75 feet of any well OR within 250 feet of wells less than 30 feet deep. Isolation distances are measured from the well location, not the shoreline.

⁴ Reward products are on MDA's restricted use pesticide list. You must be a certified applicator to use these products in waters of the state, except for small ponds that have no outflow and are under the control of the user. Weedtrine-D is not a restricted use pesticide. However, it can only be used in ponds, lakes, and drainage ditches where there is little or no outflow of water and which are totally under the control of the product's user.

⁵ The medium granular size should be used.

⁶ Only dyes that are labeled as herbicides must be registered with the USEPA and MDA. Dye product labels which claim herbicidal properties cannot be used in waterbodies where there is an outflow.