



DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER RESOURCES DIVISION

**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 and Rural and have been approved for use in the waters of the state by the Michigan Department Environmental Quality (DEQ). A permit may be required prior to treatment. Additional products may be approved in the future, pending registration with USEPA and MDARD and satisfactory review by DEQ.*

| BRAND NAME  | REGISTRANT                     | EPA REGISTRATION NUMBERS | MAXIMUM APPLICATION RATE <sup>1</sup>                    |
|---|--------------------------------|--------------------------|--|
| <i>Reminder: You should confirm that the product you purchase is labeled for your application site.</i> |                                |                          |  |
| <i>+ Indicates that product is in the process of being discontinued and supplies may be limited.</i>    |                                |                          |  |
| <b>ALGAECIDES</b>   |                                |                          |  |
| <b>CHELATED COPPER</b>  |                                |                          |  |
| AIRMAX ALGAE DEFENSE  | AIRMAX ECO-SYSTEMS INC         | 83742-1                  | 0.7 gal/acre-foot, 1.7 gal/acre-foot (macroalgae only)   |
| ALGI-CURE ALGAECIDE   | APPLIED BIOCHEMISTS INC        | 7364-9-8959              | 1.06 gal/acre-foot, 2.13 gal/acre-foot (macroalgae only) |
| ALGIMYCIN PWF ALGAECIDE/CYANOBACTERIOCID  | APPLIED BIOCHEMISTS INC        | 7364-9-8959              | 1.06 gal/acre-foot, 2.13 gal/acre-foot (macroalgae only) |
| ALLIGARE 8% COPPER  | ALLIGARE                       | 81927-52                 | 0.7 gal/acre-foot, 1.7 gal/acre-foot (macroalgae only)   |
| ALLIGARE ARGOS  | ALLIGARE                       | 81927-53                 | 0.6 gal/acre-foot, 1.2 gal/acre-foot (macroalgae only)   |
| CAPTAIN LIQUID COPPER ALGAECIDE<br>CAPTAIN XTR  | SEPRO                          | 67690-9                  | 0.6 gal/acre-foot, 1.2 gal/acre-foot (macroalgae only)   |
| CUTRINE-PLUS ALGAECIDE/HERBICIDE  | APPLIED BIOCHEMISTS INC        | 8959-10                  | 0.6 gal/acre-foot, 1.2 gal/acre-foot (macroalgae only)   |
| CUTRINE-PLUS GRANULAR ALGAECIDE   | APPLIED BIOCHEMISTS INC        | 8959-12                  | 60 lbs/acre  |
| CUTRINE ULTRA   | APPLIED BIOCHEMISTS INC        | 8959-53                  | 0.6 gal/acre-foot, 1.2 gal/acre-foot (macroalgae only)   |
| K-TEA ALGAECIDE   | SEPRO                          | 67690-24                 | 0.7 gal/acre-foot, 1.7 gal/acre-foot (macroalgae only)   |
| SYMMETRY NXG  | UNITED PHOSPHORUS INC          | 70506-249                | 0.7 gal/acre-foot, 1.7 gal/acre-foot (macroalgae only)   |
| <b>COPPER</b>   |                                |                          |  |
| AQUATROLS RADIANCE ALGICIDE FOR LAKES AND PONDS   | AQUATROLS                      | 64962-1-83940            | 0.33 gal/acre-foot, 0.55 gal/acre-foot (macroalgae only) |
| COPPER SULFATE <sup>2</sup>   | VARIOUS                        | various                  | 2.6 lbs/acre-foot, 4.4 lbs/acre-foot (macroalgae only)   |
| EARTHTEC ALGICIDE/BACTERICIDE   | EARTH SCIENCE LABORATORIES INC | 64962-1                  | 0.33 gal/acre-foot, 0.55 gal/acre-foot (macroalgae only) |
| FORMULA F-30 ALGAE CONTROL  | DIVERSIFIED WATERSCAPES INC    | 27588-2                  | 2.0 gal/acre-foot  |
| SECLEAR ALGAECIDE AND WATER QUALITY ENHANCER  | SEPRO                          | 67690-55                 | 1.0 - 6.4 gal/acre-foot                                  |
| SECLEAR G ALGAECIDE AND WATER QUALITY ENHANCER  | SEPRO                          | 67690-72                 | 1.8 - 18.0 lbs/acre-foot                                 |
| <b>ENDOTHALL, AMINE SALTS</b>   |                                |                          |  |
| HYDROTHOL 191 AQUATIC ALGICIDE & HERBICIDE  | UNITED PHOSPHORUS INC          | 70506-175                | 2.2 pints/acre-foot                                      |
| HYDROTHOL GRANULAR AQUATIC ALGICIDE & HERBICIDE <sup>3</sup>  | UNITED PHOSPHORUS INC          | 70506-174                | 11 lbs/acre-foot   |

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| <b>HYDROGEN DIOXIDE AND PEROXYACETIC ACID</b>                                      |                              |                          |   |
| GREENCLEAN LIQUID 2.0  | BIOSAFE SYSTEMS LLC          | 70299-12                 | 2.4 - 24.0 gal/acre-foot  |
| <b>SODIUM CARBONATE PEROXYHYDRATE</b>  |                              |                          |   |
| GREENCLEAN GRANULAR ALGAECIDE  | BIOSAFE SYSTEMS LLC          | 70299-4                  | 17 lbs/acre-foot, 170 lbs/acre-foot (heavy algae growth)                  |
| GREENCLEAN PRO   | BIOSAFE SYSTEMS LLC          | 70299-15                 | 10 lbs/acre-foot, 100 lbs/acre-foot (heavy algae growth)                  |
| PAK 27 ALGAECIDE   | SEPRO                        | 68660-9-67690            | 3.0 - 100 lbs/acre-foot   |
| PHYCOMYCIN SCP ALGAECIDE AND OXIDIZER  | APPLIED BIOCHEMISTS INC      | 68660-9-8959             | 3.0 - 100 lbs/acre-foot   |
| <b>HERBICIDES</b>  |                              |                          |   |
| <b>2,4-DICHLOROPHENOXYACETIC ACID (2,4-D)</b>                                      |                              |                          |   |
| AQUACIDE PELLETS AQUATIC HERBICIDE <sup>3</sup>                                    | AQUACIDE COMPANY             | 5080-2                   | 15-60 lbs/acre-foot (depending on treatment area and time of application) |
| NAVIGATE <sup>3</sup>  | APPLIED BIOCHEMISTS INC      | 228-378-8959             | 28.4 - 56.8 lbs/acre-foot (milfoil), 21 lbs/acre (lilies)                 |
| SCULPIN G AQUATIC HERBICIDE  | SEPRO                        | 67690-49                 | 16.3 - 65.4 lbs/acre-foot   |
| <b>2,4-DICHLOROPHENOXYACETIC ACID (2,4-D) AND TRICLOPYR</b>                        |                              |                          |   |
| RENOVATE LZR MAX AQUATIC HERBICIDE<br>RENOVATE MAX G AQUATIC HERBICIDE             | SEPRO                        | 67690-50                 | 4.7 - 93.7 lbs/acre-foot  |
| <b>CARFENTRAZONE</b>   |                              |                          |   |
| STINGRAY AQUATIC HERBICIDE   | SEPRO                        | 279-3279-67690           | 0.143 gal/acre-foot   |
| <b>CHELATED COPPER</b>   |                              |                          |   |
| COPPER EDA AQUATIC HERBICIDE   | APPLIED BIOCHEMISTS INC      | 8959-54                  | 3.3 gal/acre-foot   |
| CURRENT  | UNITED PHOSPHORUS INC        | 70506-248                | 3.3 gal/acre-foot   |
| HARPOON AQUATIC HERBICIDE  | APPLIED BIOCHEMISTS INC      | 8959-54                  | 3.3 gal/acre-foot   |
| HARPOON GRANULAR AQUATIC HERBICIDE   | APPLIED BIOCHEMISTS INC      | 8959-55                  | 40-80 lbs/acre-foot of plant height                                       |
| KOMEEN AQUATIC HERBICIDE   | SEPRO                        | 67690-25                 | 3.34 gal/acre-foot  |
| KOMEEN CRYSTAL   | SEPRO                        | 67690-60                 | 7.7 - 15.5 lbs/acre-foot  |
| NAUTIQUE AQUATIC HERBICIDE   | SEPRO                        | 67690-10                 | 3.0 gal/acre-foot   |
| <b>DIQUAT DIBROMIDE</b>  |                              |                          |   |
| ALLIGARE DIQUAT HERBICIDE  | ALLIGARE LLC                 | 81927-35                 | 2 gal/acre  |
| DESSCASH L&A LANDSCAPE AND AQUATIC HERBICIDE                                       | SHARDA USA LLC               | 83529-12                 | 2 gal/acre  |
| HARVESTER LANDSCAPE AND AQUATIC HERBICIDE  | APPLIED BIOCHEMISTS INC      | 100-1091-8959            | 2 gal/acre  |
| LITTORA AQUATIC HERBICIDE  | SEPRO                        | 67690-53                 | 2 gal/acre  |
| NUFARM DIQUAT SPC 2L LANDSCAPE AND AQUATIC HERBICIDE<br>NUFARM DIQUAT 2L HERBICIDE | NUFARM AMERICAS INC          | 228-675                  | 2 gal/acre  |
| REWARD LANDSCAPE AND AQUATIC HERBICIDE   | SYNGENTA CROP PROTECTION INC | 100-1091                 | 2 gal/acre  |
| SOLERA DIQUAT LANDSCAPE AND AQUATIC HERBICIDE                                      | SOLERA ATO LLC               | 82542-14-84237           | 2 gal/acre  |
| TRIBUNE HERBICIDE  | SYNGENTA CROP PROTECTION INC | 100-1390                 | 2 gal/acre  |
| TSUNAMI DQ LANDSCAPE AND AQUATIC HERBICIDE   | SANCO INDUSTRIES             | 83190-3-72838            | 2 gal/acre  |

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| ULTRA PONDWEED DEFENSE                                       | AIRMAX ECO-SYSTEMS           | 82542-14-83742           | 2 gal/acre   |
| WEEDTRINE -D- AQUATIC HERBICIDE                              | APPLIED BIOCHEMISTS INC      | 8959-9                   | 10 gal/acre  |
| <b>ENDOTHALL, AMINE/DIPOTASSIUM SALTS</b>                    |                              |                          |  |
| AQUATHOL K AQUATIC HERBICIDE                                 | UNITED PHOSPHORUS INC        | 70506-176                | 1.9 gal/acre-foot  |
| AQUATHOL SUPER K GRANULAR AQUATIC HERBICIDE <sup>3</sup>     | UNITED PHOSPHORUS INC        | 70506-191                | 13.2 lbs/acre-foot   |
| HYDROTHOL 191 AQUATIC ALGICIDE & HERBICIDE                   | UNITED PHOSPHORUS INC        | 70506-175                | 1 gal/acre   |
| HYDROTHOL GRANULAR AQUATIC ALGICIDE & HERBICIDE <sup>3</sup> | UNITED PHOSPHORUS INC        | 70506-174                | dependent on target species (see product label) and DEQ approval             |
| <b>ENDOTHALL, DIPOTASSIUM SALT AND DIQUAT DIBROMIDE</b>      |                              |                          |  |
| AQUASTRIKE   | UNITED PHOSPHORUS INC        | 70506-302                | 0.875 - 1.625 gal/acre-foot  |
| <b>FLORPYRAUXIFEN-BENZYL</b>                                 |                              |                          |  |
| PROCELLACOR EC   | SEPRO                        | 67690-80                 | 79.25 ounces/acre-foot (see product label)                                   |
| <b>FLUMIOXAZIN</b>   |                              |                          |  |
| CLIPPER HERBICIDE  | VALENT USA CORPORATION       | 59639-161                | 0.53 - 2.1 lbs/acre-foot (submergent) 6.0 - 12.0 ounces/acre-foot (emergent) |
| SCHOONER 51% WDG HERBICIDE                                   | ATTICUS LLC                  | 59639-161-91234          | 0.53 - 2.1 lbs/acre-foot (submergent) 6.0 - 12.0 ounces/acre-foot (emergent) |
| <b>FLURIDONE<sup>4</sup></b>                                 |                              |                          |  |
| AVAST! SC AQUATIC HERBICIDE                                  | SEPRO                        | 67690-30                 | 6 parts per billion  |
| SONAR A.S. AQUATIC HERBICIDE                                 | SEPRO                        | 67690-4                  | 6 parts per billion  |
| SONAR GENESIS  | SEPRO                        | 67690-54                 | 6 parts per billion  |
| SONAR PR PRECISION RELEASE                                   | SEPRO                        | 67690-12                 | 6 parts per billion  |
| SONAR Q AQUATIC HERBICIDE                                    | SEPRO                        | 67690-3                  | 6 parts per billion  |
| SONAR SRP AQUATIC HERBICIDE                                  | SEPRO                        | 67690-3                  | 6 parts per billion  |
| SONAR RTU AQUATIC WEED HERBICIDE FOR PONDS                   | SEPRO                        | 67690-48                 | 6 parts per billion  |
| SONARONE AQUATIC HERBICIDE                                   | SEPRO                        | 67690-45                 | 6 parts per billion  |
| <b>GLYPHOSATE</b>  |                              |                          |  |
| ALLIGARE GLYPHOSATE 5.4                                      | ALLIGARE                     | 81927-8                  | 6.0 pints/acre   |
| AQUA NEAT AQUATIC HERBICIDE                                  | NUFARM AMERICAS INC          | 228-365                  | 6.0 pints/acre   |
| ROUNDUP CUSTOM FOR AQUATIC & TERRESTRIAL USE                 | MONSANTO CO                  | 524-343                  | 6.0 pints/acre   |
| AQUAPRO HERBICIDE  | SEPRO                        | 62719-324-67690          | 6.0 pints/acre   |
| AQUASTAR   | ALBAUGH, INC                 | 42750-59                 | 6.0 pints/acre   |
| REFUGE HERBICIDE   | SYNGENTA CROP PROTECTION LLC | 100-1362                 | 6.0 pints/acre   |
| RODEO  | DOW AGROSCIENCES LLC         | 62719-324                | 6.0 pints/acre   |
| SHORE-KLEAR AQUATIC HERBICIDE                                | APPLIED BIOCHEMISTS INC      | 228-365-8959             | 6.0 pints/acre   |
| SHORELINE DEFENSE  | AIRMAX ECO-SYSTEMS INC       | 42750-59-83742           | 6.0 pints/acre   |
| <b>GLYPHOSATE PLUS SURFACTANT</b>                            |                              |                          |  |
| GLYPHOMATE 41 WEED AND GRASS KILLER PLUS AQUATIC HERBICIDE   | PBI/GORDON CORPORATION       | 2217-847                 | dependent on target species (see product label) and DEQ approval             |

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| SHOREKLEAR-PLUS AQUATIC HERBICIDE                     | APPLIED BIOCHEMISTS INC   | 228-367-8959             | 2.6 gal/acre broadcast, 2.75% spot treatment  |
| <b>IMAZAMOX</b>                                       |                           |                          |   |
| CLEARCAST   | BASF CORPORATION<br>SEPRO | 241-437<br>241-437-67690 | 2 qts/acre (foliar broadcast), 173 oz/acre-foot (submerged), up to 5% by volume (foliar spot treatment) |
| <b>IMAZAPYR</b>                                       |                           |                          |   |
| ALLIGARE ECOMAZAPYR 2 SL                              | ALLIGARE                  | 81927-22                 | dependent on target species (see product label) and DEQ approval  |
| ALLIGARE IMAZAPYR 4 SL                                | ALLIGARE                  | 81927-24                 | dependent on target species (see product label) and DEQ approval  |
| ARSENAL HERBICIDE                                     | BASF CORPORATION          | 241-346                  | dependent on target species (see product label) and DEQ approval  |
| HABITAT HERBICIDE                                     | BASF CORPORATION<br>SEPRO | 241-426<br>241-426-67690 | dependent on target species (see product label) and DEQ approval  |
| NUFARM POLARIS AC COMPLETE HERBICIDE                  | NUFARM AMERICAS INC       | 228-570                  | dependent on target species (see product label) and DEQ approval  |
| NUFARM POLARIS HERBICIDE                              | NUFARM AMERICAS INC       | 228-534                  | dependent on target species (see product label) and DEQ approval  |
| <b>PENOXSULAM<sup>4</sup></b>                         |                           |                          |   |
| GALLEON SC AQUATIC HERBICIDE                          | SEPRO                     | 67690-47                 | consult with DEQ and SEPRO  |
| <b>TRICLOPYR</b>                                      |                           |                          |   |
| NAVITROL DPF AQUATIC HERBICIDE                        | APPLIED BIOCHEMISTS INC   | 228-597-8959             | 67 lbs/acre-foot  |
| NAVITROL LANDSCAPE AND AQUATIC HERBICIDE              | APPLIED BIOCHEMISTS INC   | 8959-56                  | 2.3 gal/acre-foot   |
| RENOVATE 3 AQUATIC HERBICIDE                          | SEPRO                     | 62719-37-67690           | 2.3 gal/acre-foot   |
| RENOVATE LZR AQUATIC HERBICIDE                        | SEPRO                     | 67690-42                 | 67 lbs/acre-foot  |
| RENOVATE OTF  | SEPRO                     |                          |   |
| <b>SWIMMER'S ITCH</b>                                 |                           |                          |   |
| <b>COPPER SULFATE</b>                                 |                           |                          |   |
| COPPER SULFATE CRYSTALS <sup>5</sup>                  | CHEM ONE LTD              | 56576-1                  | 5.44 - 13.6 lbs/acre-foot   |
| <b>OTHER</b>  |                           |                          |   |
| <b>ADJUVANTS, SINK/DRIFT CONTROL</b>                  |                           |                          |   |
| AGRI-DEX  | HELENA CHEMICAL COMPANY   | N/A                      | 4.0 pints/acre  |
| AQUASTICKER   | NATURALAKE BIOSCIENCES    | N/A                      | 1 - 20 lbs/acre   |
| CYGNET PLUS   | BREWER INTERNATIONAL      | N/A                      | 2.5 pints/acre-foot up to 6 feet depth (1-2 gal/acre)   |
| POLYAN  | BREWER INTERNATIONAL      | N/A                      | 1.0 gal/acre-foot   |
| TOPFILM   | BIOSORB INC               | N/A                      | 1.0 pint/acre   |
| <b>SHADE PRODUCTS (DYES)</b>                          |                           |                          |   |
| <b>DYE PRODUCTS LABELED AS HERBICIDES<sup>6</sup></b> |                           |                          |   |
| ADMIRAL LIQUID  | BASF                      | 67064-2                  | 0.25 gal/acre-foot  |

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| ADMIRAL WSP   | BASF                        | 67064-1                        | 0.25 gal/acre-foot                    |
| AQUASHADE AQUATIC PLANT GROWTH CONTROL  | APPLIED BIOCHEMISTS         | 33068-1                        | 0.25 gal/acre-foot                    |
| DYE PRODUCTS NOT LABELED AS HERBICIDES (MANY)   |                             |                                |                                       |
| EXAMPLE: CYGNET SELECT  | CYGNET ENTERPRISES          | N/A                            | 0.25 gal/acre-foot                    |
| FORMULA F-40  | DIVERSIFIED WATERSCAPES INC | N/A                            | 0.25 gal/acre-foot                    |
| <sup>1</sup> Maximum rate generally approved by the DEQ. Actual rate required for control may depend on the target species and other site-specific conditions. Refer to product label.  |                             |                                |                                       |
| <sup>2</sup> Various copper sulfate products registered with the DARD (517-373-9750) may be used.   |                             |                                |                                       |
| <sup>3</sup> Granular endothall 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. |                             |                                |                                       |
| <sup>4</sup> Fluridone and penoxsulam use may be subject to Lake Management Plan and/or Evaluation protocols. Contact DEQ for current guidelines.   |                             |                                |                                       |
| <sup>5</sup> The medium granular size should be used.   |                             |                                |                                       |
| <sup>6</sup> Only dyes that are labeled as herbicides must be registered with the USEPA and DARD. Dye product labels which claim herbicidal properties cannot be used in waterbodies where there is an outflow.                           |                             |                                |                                       |