

Water Resources Division Aquatic Nuisance Control Program

Chemicals Approved for Use Under the Aquatic Nuisance Control General Permit for Canals and Marinas Located on the Great Lakes and Connecting Waters

The following list of chemicals is approved for use under the Aquatic Nuisance Control General Permit for Canals and Marinas located on the Great Lakes and connecting waters ANC96x0000, as amended. In order to have authorization to chemically treat waters of the state under the General Permit for Canals and Marinas, the permittee must be issued a Certificate of Coverage (COC) by the Michigan Department of Environment, Great Lakes, and Energy (EGLE). Additional products may be approved in the future, pending registration with the U.S. Environmental Protection Agency and the Michigan Department of Agriculture and Rural Development and satisfactory review by EGLE.

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800-662-9278 Michigan.gov/EGLE Rev. 3/2023

CATEGORY: ALGAE CONTROL

Table 1: Chemicals Approved for Algae Control

ACTIVE INGREDIENT	BRAND NAME AND MAXIMUM APPLICATION RATE
chelated copper	Airmax Algae Defense, Alligare 8% Copper, K-Tea, Symmetry NXG: • 0.7 gal/acre-foot (planktonic/filamentous algae) • 1.7 gal/acre-foot (macroalgae) Algi-Cure, Algimycin PWF: • 1.06 gal/acre-foot (planktonic/filamentous algae) • 2.13 gal/acre-foot (macroalgae) Alligare Argos, Captain, Captain XTR, Cutrine-Plus: • 0.6 gal/acre-foot (planktonic/filamentous algae) • 1.2 gal/acre-foot (macroalgae) Cutrine Plus Granular: 60.0 lbs/acre
chelated copper (with surfactant)	 Cutrine Ultra: 0.6 gal/acre-foot (planktonic/filamentous algae) 1.2 gal/acre-foot (macroalgae)
copper sulfate	All approved products (unless specified below): • 2.6 lbs/acre-foot (planktonic/filamentous algae) • 4.4 lbs/acre-foot (macroalgae) EarthTec: • 0.33 gal/acre-foot (planktonic algae) • 0.55 gal/acre-foot (filamentous algae/macroalgae) Lake-Life: 0.33 – 5.5 gal/acre foot SeClear: 6.4 gal/acre foot SeClear G: 18 lbs/acre-foot
endothall	Hydrothol 191: 2.2 pints/acre-foot Hydrothol Granular: 11.0 lbs/acre-foot
sodium carbonate peroxyhydrate	 GreenClean Granular: 17.0 lbs/acre-foot (maintenance) 170.0 lbs/acre-foot (heavy growth) GreenClean PRO: 10.0 lbs/acre-foot (maintenance) 100.0 lbs/acre-foot (heavy growth) PAK 27, Phycomycin SCP Algaecide and Oxidizer: 100.0 lbs/acre-foot

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CATEGORY: SUBMERGED PLANT CONTROL

Table 2: Chemicals Approved for Submerged Plant Control

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ACTIVE INGREDIENT	BRAND NAME AND MAXIMUM APPLICATION RATE	
2,4-D – granular	Aquacide: 60.0 lbs/acre-foot Navigate: 56.8 lbs/acre-foot Sculpin G: 65.4 lbs/acre-foot	
2,4-D and triclopyr	Renovate Max G: 93.7 lbs/acre-foot	
carfentrazone	Stingray ^{1,2} : 0.143 gal/acre-foot	
chelated copper	Copper-EDA, Current, Harpoon, Komeen: 3.3 gal/acre-foot Nautique: 3.0 gal/acre-foot Harpoon Granular: 40 - 80 lbs/acre-foot of plant height Komeen Crystal: 7.7 – 15.5 lbs/acre-foot	
diquat dibromide	Alligare Diquat ¹ , Dessicash ¹ , Harvester ¹ , Littora ¹ , Nufarm Diquat ¹ , Reward ¹ , Solera ¹ , Tribune ¹ , Tsunami ¹ , Ultra Pondweed Defense ¹ : 2.0 gal/acre Weedtrine D ¹ : 10.0 gal/acre	
endothall	Aquathol K: 1.9 gal/acre-foot Aquathol Super K Granular: 13.2 lbs/acre-foot Hydrothol 191: 1.0 gal/acre Hydrothol Granular: 162.0 lbs/acre-foot	
endothall and diquat dibromide	Aquastrike: 0.875 - 1.625 gal/acre-foot	
florpyrauxifen-benzyl	ProcellaCOR EC: 3.17-79.25 oz/ac-ft (see product label)	
flumioxazin	Alligare Flumigard, Clipper, Propeller, Schooner, Semera: 1.1 lbs/acre-foot Alligare Flumigard SC, Schooner SC, Semera SC: 1.1 pints/acre-foot	
imazamox	Castaway ¹ , Clearcast ¹ , Top Deck ¹ : 173 oz/acre-foot	
triclopyr	Navitrol ¹ , Renovate 3 ¹ : 2.3 gal/acre-foot Navitrol DPF, Renovate OTF: 67.0 lbs/acre-foot	

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CATEGORY: FLOATING/EMERGENT PLANT CONTROL

Table 3: Chemicals Approved for Floating/Emergent Plant

ACTIVE INGREDIENT	BRAND NAME AND MAXIMUM APPLICATION RATE
2,4-D – granular	Aquacide: 22.0 lbs/acre Navigate: 21.0 lbs/acre Sculpin G: 65.4 lbs/acre-foot
2,4-D and triclopyr	Renovate Max G: 93.7 lbs/acre-foot
carfentrazone	Stingray ^{1,2} : contact SePRO or EGLE for recommended target species application rates
diquat dibromide	Alligare Diquat ¹ , Dessicash ¹ , Harvester ¹ , Littora ¹ , Nufarm Diquat ¹ , Reward ¹ , Solera ¹ , Tribune ¹ , Tsunami ¹ , Ultra Pondweed Defense ¹ : 2.0 gal/acre Weedtrine D ¹ : 5 gal/acre
florpyrauxifen-benzyl	ProcellaCOR EC: 15.85 - 31.7 oz/acre (see product label)
flumioxazin	Alligare Flumigard, Clipper, Propeller, Schooner, Semera: 12.0 oz/acre Alligare Flumigard SC, Schooner SC, Semera SC: 12.0 oz/acre
glyphosate	Alligare Glyphosate 5.4 ¹ , Aqua Neat ¹ , AquaPro ¹ , AquaStar ¹ , Rodeo ¹ , Roundup Custom for Aquatic and Terrestrial Use ¹ , Shoreline Defense ¹ , Shore-Klear ¹ : see product label for target species application rate
glyphosate (Including surfactant)	GlyphoMate 41: 8.5 pints/acre ShoreKlear-Plus: 2.6 gal/acre
imazamox	Castaway ¹ , Clearcast ¹ , Top Deck ¹ : 128 oz/acre
imazapyr	Alligare Ecomazapyr 2 SL ^{1,2} , Alligare Imazapyr 4 SL ^{1,2} , Arsenal ^{1,2} , Habitat ^{1,2} , Polaris AC Complete ^{1,2} , Polaris ^{1,2} : see product label for target species application rate
triclopyr	Navitrol ¹ , Renovate 3 ¹ : 8.0 quarts/acre Navitrol DPF, Renovate OTF: 67.0 lbs/acre Garlon 3A (woody species only, see product label): 8.0 quarts/acre

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CATEGORY: ADDITIVES

Table 4: Additives Errorl Bookmark not defined.

ACTIVE INGREDIENT	BRAND NAME AND MAXIMUM APPLICATION RATE
n/a (adjuvants, sink/drift control)	AGRI-DEX: 4.0 pints/acre AMP Activator: 0.5 gal/acre-foot Aquasticker: 1-20 lbs/acre Cygnet Plus: • 2.5 pints/acre-foot (submergent) • 1.0 pint/acre (emergent) PolyAn: 1.0 gal/acre-foot PolyAn (emergent): 3-8 oz/100 gal spray solution TopFilm: 1.0 pint/acre
n/a (tracer dye)	 All Approved Dye Products: 0.01 gal/acre-foot (submergent) 0.33 to 1.0 oz/gallon concentrate (emergent)

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¹ Certain herbicide labels require or strongly recommend the use of additives to aid herbicide uptake, improve effectiveness, and minimize non-target impacts.

² Certification requirements may apply. See the product label.