FALL 2016

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s one of the largest supporters of aquatic herbicide research, Cygnet Enterprises, Inc. would like to thank our customers, friends, and family for your support and loyalty in 2016! Without valued customers like you, we would not be able to support organizations dedicated to our industry through the furthering of research and education! In turn, we hope that you will find this newsletter issue informative and educational. It is our goal to bring you the most current information from across the nation, as we know each year brings about changes to our ever-evolving industry. With the New Year fast approaching, we look forward to working alongside you as you face these changes and the challenges they may bring.

HAPPY HOLIDAYS FROM ALL OF US AT CYGNET ENTERPRISES, INC.!

Flumioxazin Stewardship

is Key to Managing Acquired Resistance Issues

EDITORIAL by Joe Bondra

The Cygnet News

Flumioxazin, the active ingredient in Clipper and Schooner herbicides, is a Protoporphyrinogen Oxidase (PPO) inhibitor. The PPO enzyme in plants is important in chlorophyll synthesis. Flumioxazin is a Group 14 herbicide. Most all Group 14 herbicides, Flumioxazin included, require proactive stewardship to manage and fight against plant resistance. Long story made short is that the plants can "adapt quickly" to the herbicide which could result in development of plants that are resistant to Flumioxazin. Most of us would agree that the addition of Flumioxazin to the aquatic plant manager's tool box has been a game changer. The use of Flumioxazin has increased steadily over the last few years as aquatic plant managers have discovered how efficient and cost effective its use is in the aquatic environment. Put that together with the excellent toxicology package, aquatic ecosystem fate profile and the ease of use, there is no wonder that more and more of the product is being used. This is where the possible issue lies in my opinion. If we are not prudent in the use of Flumioxazin and proactively steward against the development of resistant plants, we could see the loss of a very valuable tool for aquatic plant managers. Recommended stewardship activities, to name a few, are to monitor treated plant populations for resistance development, rotate the use of flumioxazin with different herbicide groups, tank mix flumioxazin with other herbicides and or algaecides that have different modes of action as allowed by the label and local regulations, apply the herbicide at full label

rates, base herbicide use on a comprehensive Integrated Pest Management (IPM) program and prevent the movement of resistant plant populations by cleaning equipment of plant fragments.

All of the Flumioxazin labels that I have reviewed have a section that specifically addresses resistance management. We, as lake managers, must be aware and acknowledge this

(Continued on page 6)

Inside this Issue:

- Cygnet Location Updates
- Cygnet's products
- Water Management at Arvin-Edison
- Aquastrike UPI
- The Hammer & Broom SePRO
- Clipper SC NuFarm
- Depth Charge NuFarm
- *Upcoming Events*

Did you know that Cygnet makes it a point to support the industry? For instance, we are the **ONLY distributor** at the **Charter GOLD level** with the Aquatic Ecosystem Restoration Foundation.

Despite the heat and humidity, we basics to the technical). hope you all survived the summer Next year, the MAPMS and were able to fit in a little bit of Conference is going to be Cygnet Enterprises, Inc. held in recognizes how hard you work, and Wisconsin, at the Hyatt we hope this season was a Regency on successful one for all. was filled with many activities encourage including several conferences we try and make it out there, attended, our recycling program, and if you do, please be new additions to our staff, and sure to stop by our booth plenty of challenges to keep us and say hello! busy.

Before the start of this year's gained season, the 36th Annual Midwest employees! The first new Aquatic Plant Management team member is Marlene Happel, participate each year, we appreciate to make it out to these meetings, She is

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Milwaukee, February 27 This year – March 2, 2017. everyone to

> This year, office t w o n e w

Society's Conference was held in and she is our new Customer Care this very much! our home state at the Amway Representative and Receptionist. Grand Plaza Hotel in Grand Rapids, She will be taking over this position Lastly, please mark your calendars Michigan. In addition, this July, we for Penny Bonner. If you call our this coming winter for our Annual attended the Aquatic Plant office, it is most likely her voice Aquatic Applicator and Lake Management Society's annual you will hear on the other end of Managers Symposium on February meeting, which was also held in the the line. The second new team 2, 2017, at the Radisson Hotel in same location. If you were unable member we gained is Dana Spress. Lansing, Michigan. Most everyone they are a great way to support the Koch, who handles our Book have never attended and would like industry as well as receive the latest Keeping. Dana will be stepping into more information, please give in industry knowledge (from the Elaine's position in the distant Garrett McClain a call at future upon Elaine's retirement. If 1-800-359-7531. This is a great you give our office a call or stop in, opportunity to learn and get the please take a chance to introduce latest information from yourself to both Marlene and Dana. manufacturers and regulatory They are both excited to get to entities. Please stay tuned for more know everyone!

This winter, we will be running our

Cygnet News: Welcome to our Newest Members



training alongside Elaine is aware of the meeting, but if you information! We hope to see you

usual Pesticide Container Recycling In closing, everyone here at the Program and appreciate everyone Cygnet Enterprises corporate office who participates each year. We feel in Flint, Michigan, wishes you a that providing this service to our safe and enjoyable off-season. We customers is an integral part of hope you are able to use this slower leading the industry in the right time of the year to recoup and direction of being conscious of our regroup! And, if you have some environment. If you would like to extra time, we hope you will participate in the program, please consider attending some of the give our office a call at conferences and meetings that 1-800-359-7531, and we would be support our industry. We truly happy to provide you with more appreciate your business this year information. Also, to those who and we look forward to working with you again in 2017!

hope you can all reflect on a early in the year. Later this year in will be no delays in processing your successful treatment season! Each March, we will be attending the orders. year seems to get busier and busier annual conference of the Western assistance with this! for us, and this year was no Aquatic Plant Management Society exception. Early in the year, the in conjunction with the annual In closing, we would like to thank water situation for much of the conference of the Western Society you for being our customer and for western U.S. saw dramatic of Weed Science. This conference choosing Cygnet Enterprises West, improvements when compared to will be held in Coeur d'Alene, Inc. as your preferred supplier. We previous years of severe drought Idaho, March 13-16, 2017. For are truly grateful for our conditions. We are truly thankful those who have never attended, this relationships with each of our for this and pray for another wet will also be a great opportunity to longtime customers and enjoy the winter as we head into 2017.

activities for us, including the more information on these enjoyable holiday season! opportunity to attend conferences conferences, you can and meetings held by important www.cwss.org organizations which support the www.wapms.org. aquatic plant management industry. In January 2017, we will be in As we approach the end of the year,

visit a n d

beautiful Monterey, California, for please remember to check your the California Weed Science permits and licenses as many of Society's annual conference, from these expire in December. If so, January 18 - 20. As always, this is please make sure to send updated a really great show for those of you information and copies of your looking to gain knowledge in all licenses to our Concord, California, areas of weed control, and to earn location. As the 2017 treatment

As 2016 is coming to a close, we your continuing education credits season begins, this ensures there We appreciate your

earn continuing education credits new relationships that develop each and to network with your peers in year! We pray for blessings for you Each year starts off with many aquatic plant management. For all in 2017, and wish you an

Western Region

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VISIT OUR WEBSITE!



PLEASE VISIT US AT WWW.CYGNETENTERPRISES.COM OR SCAN OUR QR CODE.

> YOU CAN ACCESS LABELS AND SDS'S FOR ALL OF OUR PRODUCTS AS WELL AS LINKS TO OTHER IMPORTANT INDUSTRY AND MANUFACTURER WEBSITES.

We welcome any comments or suggestions!

The 2016 treatment season is and recycling the plastic containers. I look forward to seeing everyone at coming to a close and it is always We appreciate the opportunity to these events! interesting to compare conditions to help our customers do what is right previous years. It was compelling for the environment. to read that data shows Wisconsin had the forth wettest summer on record. Approximately 16 inches fell statewide from June to August, which is 4 inches above average. Wisconsin's wettest summer was in 2010, when average rainfall was 7.5 inches. The increase in rain is attributed to an increase in humidity. It's amazing how different the conditions can be from one location to another and the problems that are associated with the different weather patterns.

I would like to remind everyone of for new topics and presenters to Cygnet Enterprises recycling keep things interesting. If you have program. We supply the bags and an idea or topic you would like to will pick up your empty containers learn more about, please contact to have them disposed of properly. me. In addition to our workshop, We appreciate you triple rinsing the we will be attending and exhibiting containers and trying to keep them at the Midwest Aquatic Plant clean. Also, please remember not Management Society, Illinois Lake to overload the bags. This makes Management Association and the job much easier for transporting Indiana Lake Management Society.

everyone as soon as it becomes our success. available. This is a good opportunity to eatch up on your CE points and find out what's new in the industry. I'm always looking

It is always rewarding to see our customers doing well and knowing In addition to our recycling we have had a part in contributing program, we will be hosting our to their success. We enjoy working annual Cygnet Aquatic Winter with everyone and getting a chance Workshop at the Purdue Beck to understand your needs much Center. This event kicks off the better. I just want to say thank you 2017 season by allowing us to to all our customers and let you refresh our skills and knowledge. know that we will always try to go Currently, no date has been set; above and beyond to make sure however, I will get the date out to your needs are met. Your success is

Thank you for your business!

Midwest Region

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North Carolina Update

By: Neal Coulter & JJ Ferris

As always, we enjoyed seeing all Fishing Contest and Golf Outing. Mid-South and South Carolina South, for giving us the opportunity

another blistering summer which meetings. Mid-South APMS was management product needs for your has been a difficult challenge for held in Baton Rouge, Louisiana. It company or agency. lake managers and aquatic was a surreal experience seeing applicators. Algae blooms were a such a well known city devastated huge problem this summer, with by the flood. Despite their set back, explosions of plant growth it was even more uplifting to see the throughout the South, occurring community come together during into September. With temperatures such a tragic event. South Carolina still in the 90s, we expect APMS was in Myrtle Beach, South treatments will linger into the fall Carolina, and it was a great time as longer than they have in past years. always with the Scholarship Pier the attendees at this year's Thank you to our customers in the

The southeast experienced yet Aquatic Plant Management Society to supply the water resource

Southern Region

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Greetings from the Northwest and thanks to all of our lake and irrigation water managers throughout the area for another rewarding year. This has been a great water year even though many water managers were disappointed with the rain and snow delivered by the El Nino weather pattern to the west coast. In the Pacific NW, rain and snow levels were at or above average and California rain and snow was average, which was significantly higher than it had been for years. With the increased water flows in the rivers and higher water levels in lakes and reservoirs, the temperatures were decreased and weed and algae growth was not as bad as it has been in previous drought years.

Zach Kuzniar joined our Cygnet NW team in January. He moved to the Boise area and has now nearly made it through the first water delivery year. Most of our customers in the NW have had a chance to meet Zach by now, and all would agree that he is a great addition to the company and his knowledge of the various water management products has grown as quickly as his understanding of the customers and territory he manages in Montana and Idaho. If you have not had a chance to meet or talk to Zach, give him a call or stop by the booth at one of the upcoming water user shows you may be attending.

As the only distributor that specializes in aquatic applications, Cygnet takes pride in the fact that we are one of the only distributors that supports all the water user groups in the NW. Even though our irrigation districts are discontinuing water deliveries and our lake applicators are wrapping up for the season, we are very busy preparing for the upcoming water user meetings scheduled this fall and winter.

Look for Cygnet Enterprises NW and Zach at the Montana Dams and Canals Association Show in Missoula, Montana, the second week of October, followed by the Washington Weed Conference the first week of November in Wenatchee, Washington. The Oregon Water Resources Congress and Washington Water Resources Association meetings are both scheduled for the week following the Thanksgiving Holiday for late November and early December. These will take place in Hood River, Oregon, and Spokane, Washington, respectively. The Oregon Water Resources Congress moved their show up one day from previous years so that their show

would not overlap with the Washington Water Resources Association show and we are planning to participate in both shows this year. The Idaho Water Users Association show is scheduled the third week of January in Boise, Idaho. In addition to the water user groups, Cygnet Enterprises continues to represent and support water users and managers at the federal and state levels as it has for the past 40 years and we will continue our efforts on your behalf. If our readers have specific concerns that you feel need to be addressed, please let your sales representatives know so we can participate in the cause.

In addition to the problems our irrigation districts encountered, we also received a lot of calls from our professional applicators that manage lakes, reservoirs, and HOA water bodies. Algae blooms were probably the largest water management challenge this summer. The water nutrient levels and temperatures were elevated and it was another great year for algae growth. There were more stories on the evening news and in the papers than ever before documenting toxic algae blooms in public waters and the harm it has done to animals drinking the water and/or human exposure to the water. Feedback we received from our customers indicates that many state and local water body owners are coming to the realization that they need to budget for managing the water on a proactive basis and not waiting until there is a toxic algae bloom before they decide something has to be done

If you are a water manager and have questions about how to best manage or optimize the management practices of your water, please contact your local Cygnet Enterprises Representative for assistance. Have a great fall and Holiday Season from Cygnet NW.

Northwest Region

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asealock@cygnetenterprises.com dkleweno@cygnetenterprises.com zkuzniar@cygnetenterprises.com Scott White - (208) 339-1368 It has been a long and busy season with the regulatory community, to conference, which will be held at here in the Northeast; the weather have more support from affiliated Wentworth by the Sea, a Marriott to our season this year. It has been improve our reputation within the Castle, New Hampshire, on January new clients in 2016. Assisting us you would like more information and hopes to attend college next current President, Glenn Sullivan year and major in engineering. If [GSullivan@solitudelake.com]. vou are looking for help I encourage you as an employer to check with your local high schools and colleges to look for students that have an interest in fields that would support our industry.

this and work in New York State, I week down time, but if they are would like to suggest that you detached (like my left side), it will consider joining The New York be a 6 week down time. I will not Association (NYSAMA). This regardless of the outcome, I will be association was formed to gain at the 2017 Northeast Aquatic Plant better access and representation Management Society's annual

gave us an early start and a late end businesses and organizations, and to Resort and Spa, which is in New a privilege to work with our long regulatory and scientific community 10-12, 2017. Hope to see everyone standing customers as well as some as Managers of aquatic systems. If there! this season again in our warehouse about NYSAMA or a membership was Joshua Beeman, "Buddy", he application please feel free to is a student at our local high school contact me or the organization's

On a personal note, I will be having me with your suggestions on surgery on my right hip November 3, 2016. It's pretty much the same thing that happened on my left side. A bone spur damaged my Gluteus medius and minor tendons. For those of you that are reading If they are torn, it will be a three Aquatic Managers know until they do the surgery. But

In closing I would like to mention that I am tentatively planning our 2017 Applicators Symposium for the beginning of next March. I am still in the planning stage for this event, so please feel free to contact on preferred date, location, and topics.

Thanks and take care!

Northeast Region

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Flumioxazin Stewardship is Key to Managing Acquired Resistance Issues (Continued from page 1)

very real possibility exists and mitigate against this possible acquired resistance issue. The language on the Flumioxazin label is clear and concise. On the Clipper label (Schooner as well), under the Resistance Management section, it reads, "Clipper Herbicide"



is a Group 14 herbicide. Any weed population may contain or develop plants that are resistant to Clipper Herbicide and other Group 14 herbicides. Weed species with acquired resistance to Group 14 herbicides may eventually dominate the weed population if Group 14 herbicides are used repeatedly in the same water body or in successive years as the primary control for targeted species. This may result in partial or total loss of control of those species by Clipper Herbicide or other Group 14 herbicides." As previously mentioned, Clipper is not being singled out as the Schooner label reads the same. It is the active ingredient, Flumioxazin, that we should consider managing for acquired resistance issues.

As mentioned previously, Flumioxazin is a truly amazing active ingredient and a very important tool for the aquatic plant manager. The ask here is that we, together, strongly consider proper stewardship of the product to manage for acquired resistance issues and put mitigating management practices in place as soon as possible. These mitigating practices are not difficult or time consuming and may be as simple as tank mixing with herbicides and/or algaecides with different modes of action as allowed by the label and local regulations. If we do not, there is a very good chance we could see resistance issues in the field in the very near future.

Cygnet Plus™

Non-Ionic, Aquatic Spray Adjuvant, Activator, & Penetrant all-in-one!



Why Choose Cygnet Plus™?

It is an alcohol ethoxylate formulation that contains NO NPE's (Nonylphenol Ethoxylate), which can bio-accumulate in animals and persist in the environment.

NPE formulations are not allowed in some states

It is also biodegradable and made of all-natural d'limonene and methylated seed oil.

The Most Effective Aquatic Surfactant



Efficacy data on has **Cygnet Plus** been gathered nationwide from coast to coast including The Center for Aquatic and Invasive Plants at the University of Florida.

It is also the only surfactant tested with Chinook Salmon, with an EC50 greater than 35 mg/L.

Cygnet Plus™ Is nature's choice for the environment. It has the proven field experience and the rigorous lab toxicology testing to back it up!



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*Sales and use of Cygnet PlusTM are regulated by various state and federal agencies. Consult them regarding these regulations and restrictions.



Cygnet Plus[™] is available in: quarts, 1, 2.5 and 30 gallon containers and 275 gallon totes

California Registration Number: 105114-50001 Washington State Registration Number: 105114-50001



For more information on **Cygnet Plus™** or any other of our products, please contact your local representative.

Western Region (800) 530-0885 Great Lakes Region (800) 359-7531 Midwest Region (888) 359-7531 Northwest Region (800) 530-0885 Northeast Region (800) 275-3325 Southern Region (800) 661-7909

WATER MANAGEMENT AT ARVIN-EDISON WATER STORAGE DISTRICT IS A TEAM APPROACH

Arvin-Edison Water Storage District is an irrigation district south-east of Bakersfield, California, that is made up of nearly 132,000 acres. The district provides surface water to 50,000 acres, and an additional 50,000 acres of deep wells are used by farming to irrigate various crops. This district has 44 pumping plants, a 56 acre balancing pond at the beginning of their North Canal, a 20 acre spillway used for balancing the South Canal along with the ability to accept and deliver water to the California Aqueduct, a 220 acre spillway pond (called the Wasteway) connected to the district's Intake Canal, and 47 miles of concrete lined canals that provides water to its end users. In addition, Arvin-Edison Water Storage District has approximately 1,500 acres of percolating ponds used for recharging aquifers which are also used by the district and farming in dry years.

Since 2005, the district has placed Stephen Smith in charge of overseeing the aquatic weed control program requiring treatment of vascular weeds and algae when they receive water from the Friant Water Authority Canal, the California Aqueduct, and well water pumped in from their water banking system. Stephen Smith works under the direction of the district's Maintenance Supervisor, and has been working at his position as Weed/Rodent Control Technician for the last 20 plus years. District water supplies are at the end of both systems referenced previously, and the water quality is extremely poor by the time is gets to Bakersfield. Water quality compounds maintenance problems, because most of the farm water users employ the use of sand filtration systems and micro-drip irrigation, which are especially susceptible to algae and other particulate in the water. In order to help manage the district's canal, Stephen has employed the services of Dennis Penner of Abate-a-Weed in Bakersfield, California. Dennis is the owner of this licensed application company that carries out contract weed management for both terrestrial and aquatic applications. Dennis and Stephen have been working together on the Arvin-Edison project for approximately 20-plus years, developing an excellent working relationship. They are both innovators and open to evaluating new products and alternative treatment plans to improve aquatic vegetation management and reduce the costs associated with delivering clean water to their agricultural customers.

Aquatic weeds and algae will always be a problem within this district because of the source of water and the long, warm growing season that is prevalent for the area.

They have had a lot of success with the use of various aquatic herbicides and algaecides including Teton, Nautique, Captain XTR, Pak 27/Phycomycin, and GreenClean Liquid, which have all been used individually and sometimes in

combination. In particular, there has been a lot of time and energy put into managing the algae that plugs filters and drip nozzles around the district. One newer innovation they have optimized is the use of Teton in a tank-mix combination with GreenClean Liquid 2.0. In a 100 gallon tank mix they will combine 2.5 gallons of Teton with 20-gallons of GreenClean Liquid 2.0 and then spray-apply this mix to floating algae. The photos below show this tank mix being applied to floating algae that has built up behind a check structure within the district. The Peroxyhydrate in the GreenClean Pro Liquid 2.0 immediately begins reacting with the floating algae which is clearly seen with the white foaming action observed in the photos. Secondarily, the Teton contacts the cells that are being disrupted by the peroxide and provides a longer term

kill and control on the algae. Both Dennis and Stephen agree that this combination of products works better than either one used individually, and the use in combination also allows them to use lower concentrations to be effective.



Doug Kleweno – Cygnet Enterprises Stephen Smith – Arvin-Edison Water Storage District Dennis Penner – Abate-a-Weed

AQUASTRIKE® SUCCESS PRAIRIE HARBOR YACHT CLUB

MANITOWOC COUNTY, WI



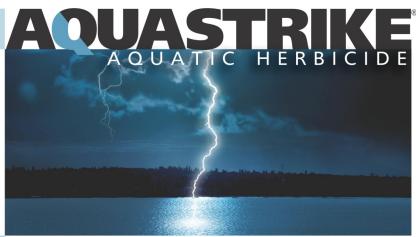
OBJECTIVE

Prairie Harbor Yacht Club is a marina approximately 10 acres located in Wisconsin and connected to Lake Michigan. This marina is strongly subjected to Great Lakes seiching (water movement into and out of the marina) waves from Lake Michigan making treatments much more difficult to maintain a lethal herbicide concentration.

Target plants included curlyleaf pondweed, Eurasian watermilfoil, flat-stem pondweed, thinleaf pondweed, elodea, and nitella.



www.upi-usa.com/aquatics-page



TREATMENT PLAN

Weather and water movement were monitored to determine a proper treatment window to minimize wind-based water movement and seiching from Lake Michigan.

AquaStrike® was applied at 0.875 gal/acre-foot with injection hoses on July 1, 2015. Start time was 8:32 am, air temp was 64°F and water temp was 64.2°F. Wind was 5-10 mph.

RESULTS

Plants were not present for the rest of the season. A minor algal bloom was recorded believed by the customer to be from the decomposing plant matter.

TESTIMONIAL

"I have been at PHYC for 10 years and have been working with you during the past three on our weed treatments. For the most part we have had to do 2 treatments a season. This year your vendor contributed an additional chemical for our treatment which we did on July 1st. This treatment was postponed a number of times due to weather and seiching. Here we are now towards the end of our season and we are seeing very little weed growth. In ten years the marina has never looked better. The treatment with the additional chemical was a huge success. Please reach out to the vendor and thank them for their contribution. As you know we also have had a few patches of stubborn weeds that were not affected by the chemicals we typically used; I'm happy to say this treatment eliminated all our growth. There was one ill side effect and that was the floating pods which were produced by the decomposing weeds on the bottom, these are easy to breakup, but there was more than we have had within any season. I will say that when we will be treating next year, we will strongly consider the same chemical mix we used this year. Thanks for being a successful part of our boating season at PHYC."

—Dennis A. Herron, Prairie Harbor Yacht Club BoD

Application made by Lake and Pond Solutions of Wisconsin. Information provided by Lake and Pond Solutions of Wisconsin.





THE HAMMER

Pound tough algae with INFUSION Technology

Get started with Captain® XTR Algaecide that delivers more copper to the algal cells providing a faster knockdown and better control.



THE BROOM

Sweep away the food source, continue to fight algae

Initiate a SeClear Algaecide and Water Quality Enhancer® maintenance program to strip nutrients while continuing to work as an effective algaecide.



Contact your SePRO Technical Specialist for management details or call 1-800-419-7779

Always read and follow label directions. Captain, SeClear and SeClear G Alagicide and Water Quality Enhancer are registered trademarks of SePRO Corporation. ©Copyright 2016 SePRO Corporation

Clipper SC



Tough. Fast. Gone.

Clipper® SC delivers fast and selective control of tough invasive and nuisance plants such as cabomba, watermeal, Eurasian watermilfoil, water lettuce, duckweed, giant salvinia and more. Plus, Clipper SC dissipates quickly from the water column and does not accumulate in sediment. With 4 lb of flumioxazin per gallon, Clipper SC offers easier handling and mixing.

CLIPPER SC DELIVERS UNBEATABLE AQUATIC WEED CONTROL

- Convenient liquid formulation improving ease of application, transport, and handling 1 liquid fl oz Clipper SC = 1 dry oz Clipper WDG
- Fast and selective control of tough invasive and nuisance plants
- Dissipates quickly from the water column and does not accumulate in sediment, giving it a favorable environmental profile
- Easy mixing, handling, and measuring
- · Less packaging
- Improved efficacy with less pH sensitivity

FAST AND SELECTIVE CONTROL OF TOUGH INVASIVE AND NUISANCE PLANTS





Trial Work, M. Belland, Aquatic Control Technology, 2012 Application Date: May 17, 2012 Pond Location: Northwest Connecticut Target Plants: Curlyleaf pondweed (submersed) and filamentous, green algae (floating)

ACTIVE INGR.	flumioxazin (44%)
FORMULATION	liquid
CHEM. FAMILY	N-phenylphthalimide
HRAC NO.	14
SIGNAL WORD	caution
RESTRICTED	no

EPA REG. NO. 71368-114



TREAT MORE PER CASE

PACKAGE SIZE 2 x 2.5 gal, 5 x 1 gal

Our new liquid Clipper SC formula treats twice as many Acre feet when compared to Clipper 51 WDG.





Grow a better tomorrow.

Clipper SC

KEY USES

For the management of undesirable aquatic vegetation in slow moving or quiescent waters

KEY WEEDS CONTROLLED

(See product label for complete list)

Alligator weed

Cabomba

Coontail

Curlyleaf pondweed

Duckweed

Eurasian watermilfoil

Fanwort

Filamentous algae

Frogs-bit

Green algae

Hydrilla

Pondweed

Sago pondweed

Variable-leaf watermilfoil

Water fern

Water lettuce

Water pennywort

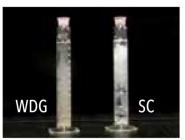
Watermeal

USE SUMMARY

Clipper® SC is a contact herbicide that quickly degrades in water. Good coverage and contact time is essential. Make applications with sufficient volume of water according to the label. When making applications to floating or emergent weeds, apply at 6 to 12 fl oz per acre and mix with an adjuvant approved for aquatic sites. For subsurface applications, apply Clipper SC at 200 to 400 ppb in the water column. Please see label for information on the effects of high pH on plant response and efficacy.

CLIPPER® SC BLOOMS AND MIXES EASILY AND STAYS IN SUSPENSION

Unlike WDG formulations, liquid Clipper SC blooms quickly and mixes easily. With only slight agitation, Clipper SC mixes evenly and completely. Plus, it stays in suspension longer – even after two hours without agitation Clipper SC shows no signs of settling.





Liquid Clipper SC goes into suspension quickly – allowing for easier mixing and less settling than WDG formulation

nsion quickly – allowing for easier Even after two hours, Clipper SC stays in suspension

PRECAUTIONS AND RESTRICTIONS

No restrictions for swimming, drinking, or fishing.

DO NOT apply to intertidal or estuarine areas.

In areas with dense weed vegetation only treat 1/2 the water body at one time and wait 10-14 days before treating the remaining area. DO NOT re-treat the same section of water within 28 days of application.

Treated water may not be used for irrigation purposes on food crops until at least five days after application.

Treated water may be used for irrigation purposes on turf and landscape ornamentals as outlined in the *Irrigation Restrictions Following Application* table below.

DO NOT use in water utilized for crawfish farming.

DO NOT re-treat the same section of water with Clipper SC more than 6 times per year.

DO NOT exceed 400 ppb of Clipper SC during any one application.

IRRIGATION RESTRICTIONS FOLLOWING APPLICATION

APPLICATION METHOD	RATE	WATER DEPTH	TURF & LANDSCAPE ORNAMENTALS	GREENHOUSE & NURSERY ORNAMENTALS
Surface Spray	6-12 oz per surface acre	Greater than 3 feet	None	5 Days
		Less than 3 feet	12 Hours	5 Days
Subsurface	Less than 200 ppb	N/A	1 Day	5 Days
	200-300 ppb	N/A	2 Days	5 Days
	300-400 ppb	N/A	3 Days	5 Days

See label for complete directions for use.



www.nufarm.com/us

For specific application rates, directions, mixing instructions and precautions, read the product label. Please visit www.nufarm.com/us to download a full label. @2016 Nufarm. Important: Always read and follow label instructions. Clipper® is a trademark of Valent U.S.A. Corporation. 16-TO-0004-C





One Fast, Effective Herbicide -**Two Modes of Action**

Depth Charge™ delivers fast control of tough invasive and nuisance plants such as Watermilfoil (including hybrids), Pondweed (including Illinois and Largeleaf), Duckweed, Watermeal, Coontail, and many more. Depth Charges' unique patent pending formulation of 2,4-D acid and flumioxazin delivers quicker uptake and efficacy, along with greater initial visibility for submerged applications. With two modes of action it is a great resistance management tool.

KEY PERFORMANCE BENEFITS

- Faster uptake with enhanced speed and efficacy
- Ability to spot treat
- Convenient liquid formulation
- · Convenient premix less packaging
- Strong resistance management tool containing two modes of action
- Submerged application has greater initial visibility

EPA REG. NO.	71368-115
ACTIVE INGR.	2,4-D acid <i>(38.87%)</i> , flumioxazin <i>(2.53%)</i>
FORMULATION	liquid
CHEM. FAMILY	auxin, N-phenylphthalimide
HRAC NO.	4 and 14
MODE OF ACT.	syntheticauxin, inhibition of protoporphyrinogen oxidase (PPO)
REI	48 hours
SIGNAL WORD	danger
RES. USE	no*
PACKAGE SIZE	2 x 2.5 gal case
*Consult label for a	complete list of use restrictions.



Grow a better tomorrow.



KEY USES

For use in ponds, lakes, reservoirs, marshes, bayous, drainage ditches and non-irrigation canals that are quiescent or slow moving

KEY WEEDS CONTROLLED

(See product label for complete list)

FLOATING & EMERGED WEEDS CONTROLLED BY SURFACE OR AIR APPLICATION:

Alligator weed

Filamentous algae (Pithophara, Cladophora)

Frog's-bit

Water fern

Water hyacinth

Water lettuce

Water pennywort

FLOATING OR SUBMERSED WEEDS CONTROLLED BY SUBSURFACE APPLICATION:

Coontail

Duckweed

Fanwort

Hydrilla

Hygrophila

Naiad (Southern)

Pondweed (curlyleaf, sago, variable-leaf)

Water fern

Water lettuce

Watermeal

Watermilfoil (Eurasian, variable-leaf)

USE SUMMARY

Apply Depth Charge[™] to emergent aquatic weeds in ponds, lakes, reservoirs, marshes, bayous, drainage ditches and non-irrigation canals that are quiescent or slow moving. Coordination and approval of local and state authorities may be required, either by letter of agreement or issuance of special permits for aquatic applications.

Apply Depth Charge in a minimum of 30 gals of water per acre to all areas of the water body where weeds exist. Coverage is essential for effective control as all floating weeds need to be exposed to lethal concentrations in all parts of the water body. Any untreated escapes or re-introductions of plants that were not treated will reestablish in areas where surface weeds had previously been controlled. If a second application is required to provide control, a treatment may be made once the return of these weeds is first observed, but no sooner than 28 days after the last treatment.

Application during early morning hours may enhance weed control. When applying to densely packed actively growing surface weeds, ensure adequate coverage. Rapid decomposition of vegetation resulting from herbicide treatment can result in loss of oxygen in water. A sudden decrease in dissolved oxygen can result in fish suffocation. If aquatic vegetation is dense, treat floating surface weeds in sections to avoid a rapid decrease in dissolved oxygen.

Depth Charge may be tank mixed with diquat, glyphosate or other registered foliar applied herbicides for enhanced control of floating and emergent weeds.

See label for complete directions for use.

RESTRICTIONS

Do not apply to intertidal or estuarine areas.

Do not use in water utilized for crayfish farming.

Do not use on small canals with a flow rate less than 10 cubic feet per second (CFS) where water will be used for drinking purposes.

In areas with dense weed vegetation only treat 1/2 the water body at one time and wait 10-14 days before treating the remaining area. Do not retreat the same section of water within 28 days of application.

Treated water may not be used for irrigation purposes on food crops until at least 5 days after application.

Maximum of 8 pints (4 lbs ae 2,4-D) per surface acre per application.

Limited to 2 applications per season.

Minimum of 28 days between applications.

Spot treatments are permitted.

See label for complete application precautions and restrictions.



UPCOMING EVENTS

Cygnet Enterprises, Inc. will be attending to the following conferences, hope to see you there!

DATE	EVENT	LOCATION	CONTACT
January 9th - 11th	18th Annual NEAPMS Conference New Castle Portsmouth, NH		www.neapms.org
January 18th - 20th	2017 California Weed Science Society Annual Conference	Portola Hotal & Spa Monterey, CA	cwss.org
January 24th - 26th	The Society of Lake Management Professionals	Daytona Beach, FL	lakeprofessionals.org
January 31st	13th Annual Cygnet Enterprises Aquatic Management Winter Workshop	The Beck Center - Purdue University West Lafayette, IN	John Olsen (888) 359-7531
February 2nd	Aquatic Applicator & Lake Managers Symposium	Radisson Hotel Lansing, MI	Garrett McClain (800) 359-7531
February 27th - Mach 2nd	37th Annual MAPMS Conference	Hyatt Regency Milwaukee, WI	www.mapms.org
March 2nd - 3rd	29th Annual Indiana Lake Management Society Conference	Fourwinds Lakeside Inn Marina Bloomington, IN	www.indianalakes.org
March 13th - 16th	2017 Western Aquatic Plant Management Annual Conference	Coeur d'Alene, Idaho	wapms.org
March 30th - April 1st	32nd Annual Illinois Lake Management Association Conference	Holiday Inn Crystal Lake, IL	ilma-lakes.org

Go Paperless - Electronic Invoicing!

Cygnet Enterprises, Inc., has the ability to email your invoices to you rather than having a paper copy mailed to you. If you find this to be more convenient, please contact your regional Cygnet office and they will be happy to make the proper arrangements. We appreciate your commitment to sustaining our natural resources by going paperless!

All of the offices of Cygnet Enterprises, Inc. will be closed in 2016-2017 for the following National Holidays:

Thanksgiving (November 24th & 25^{th)}
Christmas - New Years (Dec 23rd - Jan 2nd)

Cygnet Enterprises, Inc. 1860 Bagwell St. Flint, MI 48503

