



Hello **RYDLYME Marine!** Goodbye Zebra Mussels!

Apex Engineering Products Corporation has a safe biodegradable liquid chemical cleaner called **RYDLYME Marine** that removes and dissolves zebra mussels. This **safe marine descaler** will help remove zebra mussels and other mineral deposits that hinder the performance of vital water systems.

Zebra mussels cause economic and ecological problems for the marine industry as well as other commercial utilities that use raw water intake as part of their cooling process.

WHAT ZEBRA MUSSELS CAN DO TO YOUR WATER SYSTEMS

Zebra mussels generally live for about 2 years, but they can survive as long as 4 to 5 years. The female mussels can reproduce up to *one million times a year*. They migrate towards warmer areas and attach on to anything they can. They continue to pile up on each other to the point where the original mussels have no access to food and perish. Eventually, the stack of mussels will collapse and get sucked into water intake systems. An even bigger problem is that the veligers (fertilized eggs) are able to get through the filters and intake screens reproducing more zebra mussels within your crucial water systems.

WHAT IT COULD COST TO CONTROL ZEBRA MUSSELS

A survey by the Zebra Mussel Information Clearing House revealed that 339 water-dependent facilities spent more than \$69 MILLION in 1995 to monitor, remove, and control this mussel. Conservation agencies have incurred exorbitant costs from attempts to prevent adverse effects on aquatic resources. Various facilities around Lake Michigan have spent more than \$120 MILLION on the control and clean up of these mussels.

HOW ZEBRA MUSSELS NEGATIVELY AFFECT YOUR MARINE EQUIPMENT

Zebra mussels are notorious for their biofouling capabilities by colonizing water supply pipes, power plants, and virtually all sea going vessels. They colonize pipes constricting flow, therefore reducing the intake in heat exchangers, condensers, fire fighting equipment, cooling systems, chillers, and evaporators, which occasionally cause shutdowns.



RYDLYME Marine removes zebra mussels that can damage your equipment without damaging the environment!

Small mussels can also get into engine cooling systems causing overheating, decreased fuel efficiency and damage to equipment. Navigational aids and recreational boating can be affected by increased drag due to attached mussels. Navigational buoys have been sunk due to the weight of the attached zebra mussels. Continued attachment of zebra mussels can cause corrosion of steel and concrete affecting structural integrity.

RYDLYME Marine will **NOT** harm:

- ✓ iron
- ✓ brass
- ✓ wood
- ✓ plastic
- ✓ bronze
- ✓ rubber
- ✓ copper
- ✓ titanium
- ✓ gelcoats
- ✓ fiberglass
- ✓ stainless steel
- ✓ copper/nickel
- ✓ cast aluminum
- ✓ painted surfaces

(continued)

HOW TO RESOLVE THE PROBLEMS WITH LITTLE COST TO YOU

There have been numerous attempts to try and remove the zebra mussels, but none have been effective or safe for the environment until now. **RYDLYME Marine** will completely remove the entire zebra mussel safely and effectively. Furthermore, you do not have to use time



Before using **RYDLYME Marine**



During **RYDLYME Marine** use



30 minutes later after using **RYDLYME Marine**

Why Use **RYDLYME Marine**?

- ✓ Save money!
- ✓ Environmentally friendly!
- ✓ Decrease maintenance costs!
- ✓ Avoid unnecessary shutdowns!
- ✓ Add revenue to your bottom line!
- ✓ Clean-in-place to reduce labor costs!
- ✓ Experience smooth running equipment!
- ✓ Prevent corrosion of steel and concrete!
- ✓ Save time fixing and cleaning your boat!
- ✓ Avoid pitting of fiberglass caused by sanding!
- ✓ Keep your engine clean to avoid overheating!

consuming and costly methods like a paint scraper or sandpaper to remove the difficult barnacle husks.

RYDLYME Marine is a **safe, non-corrosive, non-hazardous, and biodegradable** solution used at room temperature that rapidly dissolves zebra mussels. The reaction of the solution coming in contact with the zebra mussels results in a slight foaming action indicating the zebra mussels are actually dissolving into solution.

RYDLYME Marine is also environmentally friendly. There is no waste disposal problem with this product—it is biodegradable in any concentration and can be flushed down regular sewer systems or disposed of overboard.

If you want to help the environment and save time and money, **RYDLYME Marine** is the solution for you!

Compare **RYDLYME Marine** to Acid Methods:

Descaling Method	Disposal Expense	Biodegradable	Hazardous to People	Corrosive to Equipment	Disassemble Equipment
Acid	YES	NO	YES	YES	YES
RYDLYME Marine	✓NO	✓YES	✓NO	✓NO	✓NO



Apex Engineering Products Corporation
 1241 Shoreline Drive • Aurora, Illinois 60504
 630.820.8888 • 800.451.6291 • Fax: 630.820.8886