

RYDLYME Marine dissolves unwanted marine growth, calcium, rust, barnacles, and zebra mussels completely, rapidly, and safely!



The Solution to Your Marine-Based Water-Scale Problems!

What is *RYDLYME* Marine?

Apex Engineering Products Corporation is proud to introduce an innovative and revolutionary liquid descaler to the marine industry. *RYDLYME Marine* is a safe, biodegradable marine descaler developed to dissolve problematic fouling mediums including calcium, rust, mussels, barnacles, tiger shells and other scale formed mineral deposits that hinder the performance of vital water systems.

RYDLYME Marine is formulated to meet the demands of today's water systems. *RYDLYME Marine* is **non-corrosive, non-hazardous, and biodegradable**. With the **reduction of labor and operating costs, downtime, and no installation costs**, accompanied with the heavy duty cleaning power, *RYDLYME Marine* keeps your vessel at sea generating revenue.

Biodegradable

RYDLYME Marine is
biodegradable and safe
for your equipment,
personnel and the
environment!

This safe and simple solution effectively dissolves rock-like scale deposits that contaminate your water-cooled marine equipment. *RYDLYME Marine* is used at ambient temperature and then circulated to bring the solution in contact with the accumulated minerals. The reaction results in a slight foaming or bubbling action, indicating the deposits are actually dissolving into solution, and then simply water flush away!

Non-Toxic

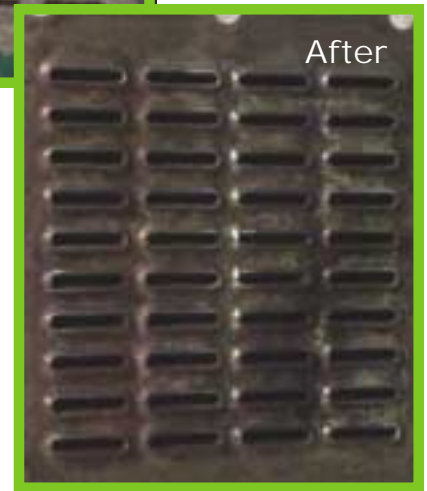
These scale deposits, along with zebra mussels and tiger shells, damage your equipment and reduce your water system performance. Historically, these problems have been addressed via harsh acids, mechanical methods, ion exchange, polyphosphates, permanent magnets and electronic conditioning. If your vessel is heat exchanger cooled, keel cooled, or radiator cooled, try *RYDLYME Marine* and ride the waves with maintenance superiority!



Before

Fast

RYDLYME Marine
cleaned this
air cooler in a
matter of hours!



After

RYDLYME Marine IS NON-CORROSIVE

It will not corrode, pit, oxidize or have other deleterious effects on metals or materials such as:

- IRON
- STEEL
- RUBBER
- PLASTIC
- STAINLESS STEEL
- PAINTED SURFACES
- WOOD
- COPPER
- TITANIUM
- GELCOATS
- FIBERGLASS
- COPPER NICKEL

Or other materials found in water-based equipment or systems.

Why Use *RYDLYME* Marine?

Use *RYDLYME* Marine for your commercial descaling solution to clean the seawater side of heat exchangers on all types of vessels, including work boats, cruise ships, submarines, freighters, and recreational boats. Scale build-up on heat exchanger tubes can inhibit effective cooling and damage equipment. Until now, heat exchangers were removed from the vessel and cleaned ashore resulting in high costs and lengthy equipment down times. With *RYDLYME* Marine you can CIP (clean-in-place) to reduce workload and save valuable maintenance dollars.

Safe

Using *RYDLYME* Marine to remove unwanted marine growths will keep your vital water system operating efficiently with minimum attention and expense.

When your ship inspection requires maintenance or repair, and you demand maintenance superiority, count on *RYDLYME* Marine for descaling hard water affects such as lime scale, scum, and fouling of your water systems.

Non-Corrosive

Apex Engineering Products Corporation employs a technical staff and maintains an extensive inventory to meet the most emergent repairs. For more detailed information please call or visit our website at www.rydlymemarine.com.

SUMMARY

Now that you have learned what *RYDLYME* Marine is all about, take a few minutes to think about how and why *RYDLYME* Marine should be a part of your preventive maintenance program.

- ✓ *RYDLYME* Marine is Safe for Equipment and Personnel!
It is non-corrosive to virtually all metallurgies and material commonly found within water-based equipment or systems. It is safe, non-hazardous, non-toxic, and biodegradable.
- ✓ *RYDLYME* Marine is Effective!
It dissolves approximately 2 lbs. of the toughest calcium deposit efficiently and effectively.
- ✓ *RYDLYME* Marine will Lower Maintenance and Labor Costs!
With only two employees your equipment can be cleaned in place, returning your vital water systems to 100% working efficiency.
- ✓ *RYDLYME* Marine is Biodegradable!
It can be disposed of through normal sewer systems and in many cases directly to the ocean or inland waterways.
- ✓ *RYDLYME* Marine is Simple!
It can dissolve the toughest fouling mediums—even tannic acid—with little or no work. It is not a powder or paste, it is a simple ready-to-use liquid which can be sprayed on and wiped off with ease.

RYDLYME Marine is the Solution!
800-451-6291

Non-Hazardous

During *RYDLYME* Marine use

Before using
RYDLYME Marine



30 minutes later
after using
RYDLYME Marine



RYDLYME Marine dissolves mussels, zebra mussels, and tiger shells quickly!



What Types of Applications Benefit From Using RYDLYME Marine?

- hulls
- buoys
- boilers
- seacocks
- condensers
- keel coolers
- sea strainers
- tube bundles
- propulsion units
- air compressors
- waste heat boilers
- feed water heaters
- pumps
- chillers
- radiators
- fire mains
- diesel engines
- intake screens
- lube oil coolers
- cylinder jackets
- heat exchangers
- air conditioning units
- transmission coolers
- water pumps and impellers
- propellers
- generators
- evaporators
- bow thrusters
- booster heaters
- desalination units
- all types of coolers
- waste water piping
- engine cooling systems
- main and aux sea water systems
- and other applications where fouling is a problem

Non-Hazardous

Non-Toxic



Safe

Fast

RYDLYME Marine restores efficiency on lube oil cooler.

Non-Corrosive

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 • Fax: 630.820.8886
800.451.6291