

# APEX

## QUARTERLY

THIRD QUARTER 2022

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**NEWS ON SAFE  
CHEMICAL SOLUTIONS  
FROM APEX ENGINEERING  
PRODUCTS CORPORATION**



Watch a boiler  
descaling video!

## Descaling Boilers

Colder weather is around the corner, don't wait to clean your boilers!

### **RYDLYME** Descaler for Boilers

Scale accumulation along the waterside of boilers and boiler tubes will rob the boiler's heat transfer efficiency. This scale accumulation can be made of rust, calcium, limescale and many other mineral deposits. These unwanted insulators accrue from several factors, including but not limited to: operating hours, feed water hardness, operating temperature and boiler treatment and maintenance.

It is crucial that a preventative maintenance program be put in place utilizing **RYDLYME** biodegradable descaler and a convenient and portable **RYDLYME** Pumping System.

**RYDLYME** descaler is the safe, fast and effective tool for dissolving these deposits. An annual, or more frequently dependent on above factors, **RYDLYME** cleaning will dissolve the calcium, limescale, rust, and other mineral deposits into solution without harming the metallurgy or components within your boiler. **RYDLYME** is non-hazardous for the personnel who perform the cleaning and disposal is simple upon completion of the cleaning; as



**RYDLYME** descaler is readily biodegradable. Just dispose of used solution down normal plant sewer.

For instance, scale that is only 3/16" thick will cause the boiler to use 27% more fuel! More importantly – leaving this scale build up in the tubes of the boiler can greatly reduce the lifespan of the boiler. Scale is naturally corrosive to the tube material, slowly but surely eating through at the tube walls! Maintaining your boiler with **RYDLYME** chemical descaler minimizes scale accumulation, corrosion, and will ultimately increase the equipment's lifespan and efficiency.

### Boiler Tube **RYDLYME** Descaling Procedure

Apex Engineering Products has been manufacturing safe chemical solutions for more than 80 years, so we are familiar with all shapes, sizes and boiler configurations. The procedure outline below is brief and simple for most boiler cleanings.

1. Shut down boiler.
2. Blow down with pressure still on.
3. Drain and flush unit.
4. Close steam valve.
5. Add **RYDLYME**, and then top off with water.
6. Circulate through the drain or low point and return from the pressure relief valve or high point of the boiler back to a vented container.
7. Circulate for 4-8 hours depending on volume.
8. Open steam valve.
9. Drain, flush, re-fill and start up.

For detailed instructions please visit our website or contact our technical staff for assistance.



“ Easily circulate **RYDLYME** through cooling towers to clean the fill, basin and much more! Saves time & money! ”



## COOLING TOWER DESCALING

### The road to recovering efficiency

Adding **RYDLYME** descaler to the cooling tower basin allows the tower's transfer pump to circulate the solution throughout the entire cooling system while in operation.

This can all be accommodated during the normal operation of the cooling tower without shutdown!

It is imperative when calculating the required amount of **RYDLYME** descaler needed for a cooling tower system to include enough **RYDLYME** for the equipment load of the tower as well as the tower.

### **RYDLYME** Features:

- Biodegradable
- Dissolves 2.2 lbs of scale per gallon of **RYDLYME**
- NSF/ANSI 60 certified
- Non-corrosive and safe for personnel



## HOSPITAL BOILER DESCALING

A midwestern hospital was having trouble keeping their 15 h.p. steam boiler running efficiently. Upon further inspection, scale build up was inhibiting the tubes creating a 'blanket' barrier! This 'blanket' was robbing the hospital in the form of utility costs.

Our knowledgeable local representative helped the hospital's maintenance team clean their boiler with **RYDLYME**. A total of 175 gallons of **RYDLYME** and water were circulated for a total of 5 hours using Apex Engineering Product's industrial pumping system - the 10MDC. The 10MDC includes a 10MDO magnetic drive pump, three Tygon 1" diameter X 10' hoses, and bulkhead fittings all conveniently packaged in a 14-gallon recirculation bucket.

The maintenance team was very happy with the results! The water scale in the boiler was completely dissolved due to **RYDLYME**'s tried and true reputation of being the World's Leading Biodegradable Descaler.



### CHALLENGE

A steam boiler at a midwestern hospital was experiencing heating inefficiencies in their boiler system.

### SOLUTION

A total of 175 gallons of **RYDLYME** and water were circulated through the boiler for 5 hours.

### RESULTS

The customer is extremely satisfied with the results of **RYDLYME** dissolving the scale surrounding the boiler tubes - **RYDLYME** is scheduled to clean their other boilers as well!

## DESCALER & PUMPING SYSTEMS



**RYDLYME** biodegradable descaler is uniquely formulated to dissolve the toughest water scale, lime scale, mud and rust deposits from virtually any water-operated equipment. NSF A3 and ANSI 60 certified.



**RYDLYME Pumping Systems** are specifically designed to circulate **RYDLYME** through a vast array of equipment and systems to keep your facility at peak operating condition.

## CLEANERS & DEGREASERS



**RYDALL CC Coil Cleaner** is a biodegradable, concentrated solution that is safe for indoor and outdoor cleaning of air exposed surfaces on HVAC/R equipment. Dilutable and capable of being applied via foaming applicator. NSF A3 certified.



**RYDALL MP Multi Purpose Degreaser** is a biodegradable, versatile cleaner that quickly and safely removes oil, grease, grime and other pollutants from wettable surfaces and components. NSF A1 certified.



**RYDALL HD Heavy Duty Degreaser** is a biodegradable heavy duty, industrial grade degreaser. Used specifically on all carbon based derivatives that are found on the oil and/or process sides of your critical equipment or systems.



**RYDALL VP Specialized Degreaser** is a biodegradable, pH neutral degreaser specifically designed to safely and quickly clean and degas refinery process equipment. It can be applied in circulation or vapor phase applications.



**RYDALL DC Deodorizing Cleaner** is a biodegradable, ultra-concentrated cleaner designed to be used generally in janitorial applications such as floor, bathroom and window cleaning.

## ODOR CONTROL, WATER TREATMENT & WASTE CONVERSION



**RYDALL OE Odor Eliminator** is a unique, environmentally beneficial additive that is applied to landfills, compost or other organic odors. Naturally enhances methane release and production. Contains no masking agents, essential oils or fragrances.



**RYDALL WO Water Optimizer** is an environmentally beneficial additive that naturally reduces and prevents the formation of  $H_2S$ , COD, BOD, FOG, TDS and TSS. Thereby reducing corrosion and discharge penalties while increasing production.



**AEPC Thermal** is a division of Apex Engineering Products Corporation (AEPC). Our mobile waste conversion plants are trailer mounted and ready for deployment!

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Apex Engineering Products has been formulating and manufacturing safe and biodegradable specialty cleaning chemicals for a diverse range of applications around the world. From our **RYDLYME** biodegradable descaler to our versatile **RYDALL** line of degreaser/cleaner, odor control and water treatment products, we aim to decrease downtime and increase efficiency.

We are a fourth-generation, family-owned company acclaimed not only for our biodegradable line of products, but also our in-depth and exceptional customer support. With decades of knowledge and experience in a wide array of applications, our professional technicians will work closely with you to determine the best solution for your facility's unique challenges.

Apex Engineering Products also takes great pride in being an ISO 9001 Certified Company providing the highest level of support and quality of products to our customers... **another formula that hasn't changed in over 80 years!**