

# APEX

QUARTERLY

FIRST QUARTER 2024



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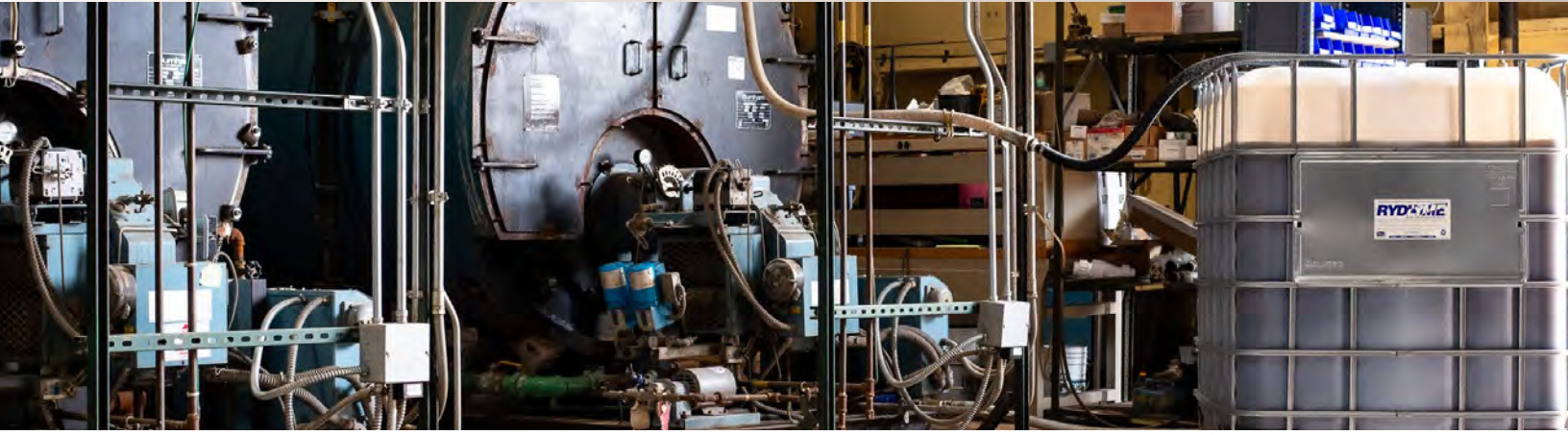
**NEWS ON SAFE  
CHEMICAL SOLUTIONS  
FROM APEX ENGINEERING  
PRODUCTS CORPORATION**

Manufactured Since 1942 by: Apex Engineering Products Corporation



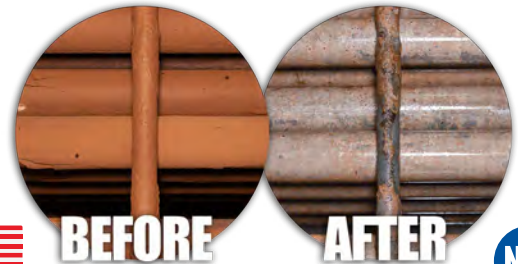
## Boiler Cleaning Kit

**RYDLYME** dissolves water scale, lime, struvite, vivianite, mud and rust deposits safely, quickly and effectively!



**RYDLYME** Boiler Cleaning Kit includes:

- A recommended quantity of **RYDLYME** Biodegradable Descaler (NSF/ANSI/CAN 60)
- An Industrial Descaling System for circulation
- Including multiple hoses
- Technical support and sales representatives around the globe
- **FREE** desposit test! (\$299 **VALUE!**)



  
Made in  
U.S.A.



Certified to NSF/ANSI 60  
Nonfood Compounds (A3)



Industrial Descaling System 10CIP & 15MDC

### Product Size

### SKU

**RYDLYME** 4X1 Gallon Case

**RYD04**

**RYDLYME** 1 Gallon Jug

**RYD01**

**RYDLYME** 5 Gallon Pail

**RYD05**

**RYDLYME** 30 Gallon Drum

**RYD30**

**RYDLYME** 55 Gallon Drum

**RYD55**

**RYDLYME** 330 Gallon Tote

**RYD330**

Easily circulate **RYDLYME** through cooling towers, heat exchangers and much more!  
Save time & money!

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**RYDLYME** descaler is a highly effective tool that is designed to remove scale and buildup from a wide range of industrial equipment, including cooling towers, heat exchangers, chillers, boilers, and more - universities and other educational campuses use this equipment. This powerful chemical solution has been proven to be highly effective at removing even the most stubborn scale buildup, and it can be used in a variety of different applications across a range of industries.

For colleges, universities, and high schools, **RYDLYME** descaler can be an incredibly valuable product for maintaining and cleaning industrial equipment. These institutions often rely on complex heating & cooling systems to maintain comfortable temperatures for students, faculty, and staff, and these systems can become clogged with scale and buildup over time, leading to inefficiencies and decreased performance.

One of the key advantages of using **RYDLYME** descaler is that it is a safe and environmentally friendly solution that is non-toxic and biodegradable. This means that it can be used safely without posing a risk to workers or the environment, making it an ideal choice for educational institutions that prioritize safety and sustainability.

When it comes to descaling cooling towers, heat exchangers, chillers, boilers, and other industrial equipment, **RYDLYME** descaler is highly effective at removing scale and buildup without damaging the underlying equipment. It can be used in a variety of different applications, including removing calcium, lime, rust, and other mineral deposits.

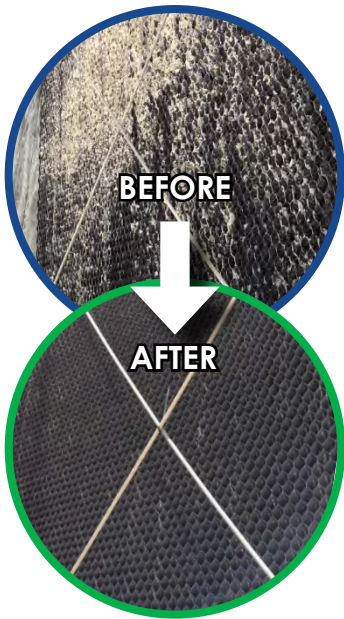
The process of using **RYDLYME** descaler is relatively simple and straightforward, and it can be completed in a matter of hours. First, the equipment to be cleaned is drained and flushed to remove any loose debris and

buildup. Then, the **RYDLYME** descaler solution is added to the system, and it is circulated throughout the equipment to dissolve and remove any remaining scale and buildup.

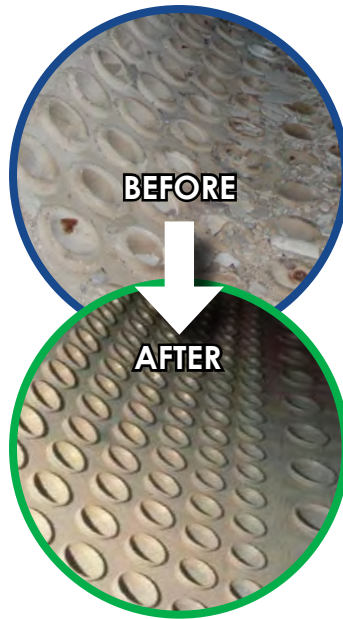
After the descaling process is complete, the equipment is thoroughly rinsed and flushed to remove any remaining traces of the solution, and it is ready to be put back into service. By using **RYDLYME** descaler on a regular basis, educational institutions can ensure that their industrial equipment is operating at peak efficiency, which can help to reduce energy costs and extend the lifespan of the equipment!

**RYDLYME** descaler is a highly effective and safe solution for descaling cooling towers, heat exchangers, chillers, boilers, and other industrial equipment in colleges, universities, and high schools. By using this powerful descaler, educational institutions can maintain their heating & cooling systems in top condition, ensuring that they are operating at peak efficiency and minimizing downtime due to equipment failures.

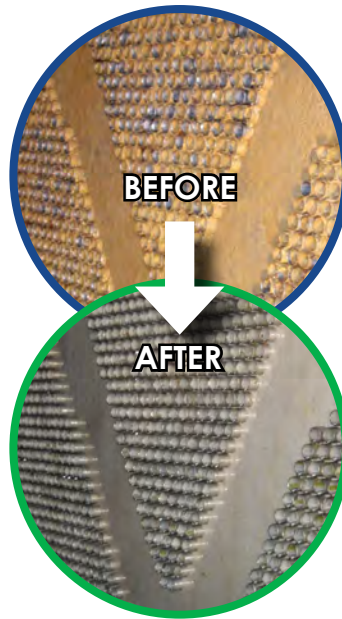
**Cooling Tower Scale**



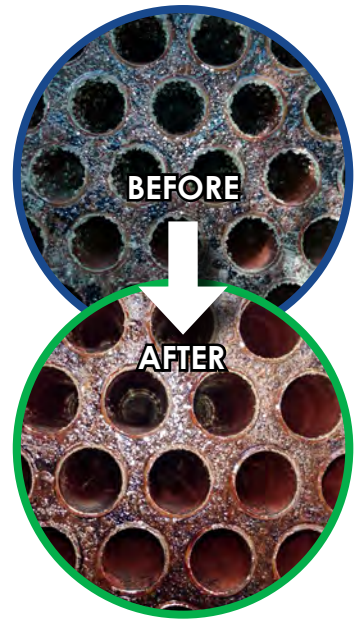
**Boiler Scale**



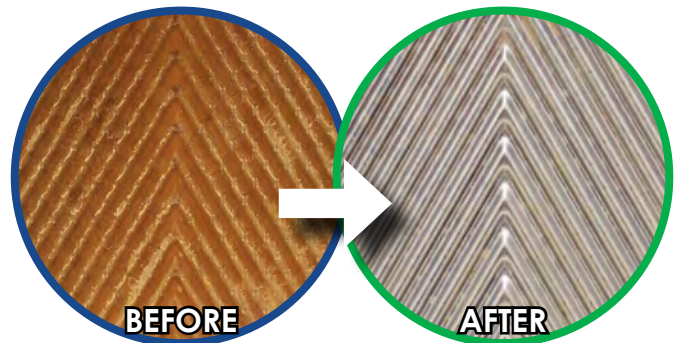
**Condenser Scale**



**Chiller Scale**



**Heat Exchanger Scale**



**RYDLYME**  
World's Leading Biodegradable Descaler



**RYDLYME** Features:

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

“Biodegradable, safe on roofing materials & personnel, what else could you ask for in a coil cleaner?”



## WHY CLEAN YOUR COILS?

Air-cooled condensers, evaporator coils and other finned cooling and heating coils can become coated and clogged with organic and inorganic deposits such as oils, calcium, dust, dirt and other deposits. This contamination will, in turn, cause the coil to lose efficiency in the form of increased energy consumption, loss of air flow and a decrease in indoor air quality. Cleaning your coils a minimum of twice per year will restore your efficiencies and extend the useful life of your equipment.

## WHY USE RYDALL CC?

Suited for use with almost any indoor/outdoor coil, **RYDALL CC** will remove unwanted deposits and return coils back to peak efficiency.

- Biodegradable!
- NSF Certified!
- Use for Indoor/Outdoor Coils!
- Safe on All Roofing Materials!
- Low-odor Acid Based Formulation!

1 Part CC      1 Part H2O      1 Part H2O



## HOW TO USE RYDALL CC?

Simply dilute 1 part **RYDALL CC** and 2 parts water, spray, let soak and rinse away! For application questions and information please contact an Apex Engineering Products representative at: **630-820-8888!**



Easily penetrates through dirt and other airborne debris!



## CASE STUDY

Manufactured Since 1942 by: Apex Engineering Products Corporation



# REFINERY VERTICAL HEAT EXCHANGER CLEANING

A refinery was experiencing cooling issues throughout their entire cooling system. Shutting the plant down in order to replace the heat exchanger was not an option as this would cost \$1 million every day that the line is not operating! Due to the severity of the situation, the refinery needed a chemical that is reliable, has a history of dissolving scale safely, effectively and quickly! Naturally, **RYDLYME** was the only choice.

**RYDLYME** was delivered the same day the refinery placed their order so they could get to work immediately! 300 gallons **RYDLYME** was diluted to 50% with an additional 300 gallons of water. The solution was circulated throughout the 30''X20' heat exchanger for 6 hours. Once the **RYDLYME** solution was drained, the maintenance crew was stunned! The heat exchanger was back to OEM specification! They are now firm believers in **RYDLYME** and plan to clean the rest of their cooling system!



### CHALLENGE

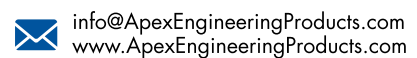
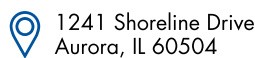
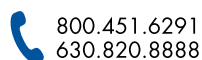
A refinery was having a hard time keeping their cooling system efficient - one of their heat exchanges had significant scaling on the tubes.

### SOLUTION

A total of 300 gallons of **RYDLYME** was circulated through the heat exchanger for 6 hours.

### RESULTS

The heat exchangers were restored to OEM specifications. **RYDLYME** saved the refinery plant \$1 million a day instead of having the heat exchanger off line.



## 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



**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<sub>2</sub>S, COD, BOD, FOG, TDS and TSS. Thereby reducing corrosion and discharge penalties while increasing production.



**BUCKED SCENT ELIMINATOR** is born and bred from our industrial products, BUCKED is designed to eliminate the scent hunters carry in order to be invisible!

1241 Shoreline Drive Aurora, Illinois 60504 T: 630.820.8888 | 800.451.6291 | F: 630.820.8886 | MADE IN THE USA

**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!**