

APEX

QUARTERLY

SECOND QUARTER 2021

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- SAVE TIME AND MONEY BY CLEANING AT ONCE!**

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***RYDALL CC* COIL CLEANER - BIODEGRADABLE
& SAFE ON ROOFING MATERIALS!**

**HAND SANITIZER DONATED TO LOCAL
ORGANIZATIONS & MORE!**



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



Descaling Cooling Towers & Chillers

Cleaning both pieces of equipment at the same time

Cooling Towers & Chillers

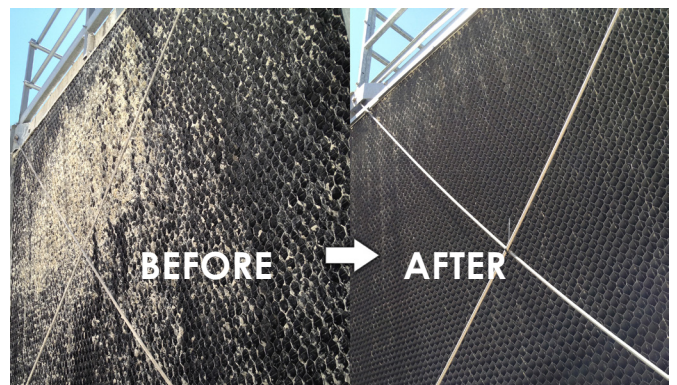
For most facilities, the main reason for regular maintenance on cooling towers and chillers is to maintain energy efficiency. This cleaning, which is recommended twice a year in most regions, helps keep operating costs down and reduces the risk of costly repairs. However, cleaning also offers other benefits...

Scale - The Ugly Truth

Scale accumulation occurs when the minerals in water fall out onto heating/cooling surfaces such as chiller tubes, cooling tower fill/basins and heat exchanger tubes leaving a layer of hardened minerals covering the heating/cooling transfer surface. This scale on heating/cooling surfaces not only reduces efficiency, but is also corrosive to the equipment leading to premature failure!

Benefits to Preventative Maintenance

Now that we know just how dangerous scale can be to your equipment, let's discuss the benefits to preventative maintenance with **RYDLYME**. A simple circulation of **RYDLYME** throughout the cooling tower and chiller system 1-2 times a year can save you money and costly repairs! The cost of a **RYDLYME** cleaning is much cheaper and easier than replacing an entire cooling tower or chiller system!



Cooling Tower & Chiller Cleaning

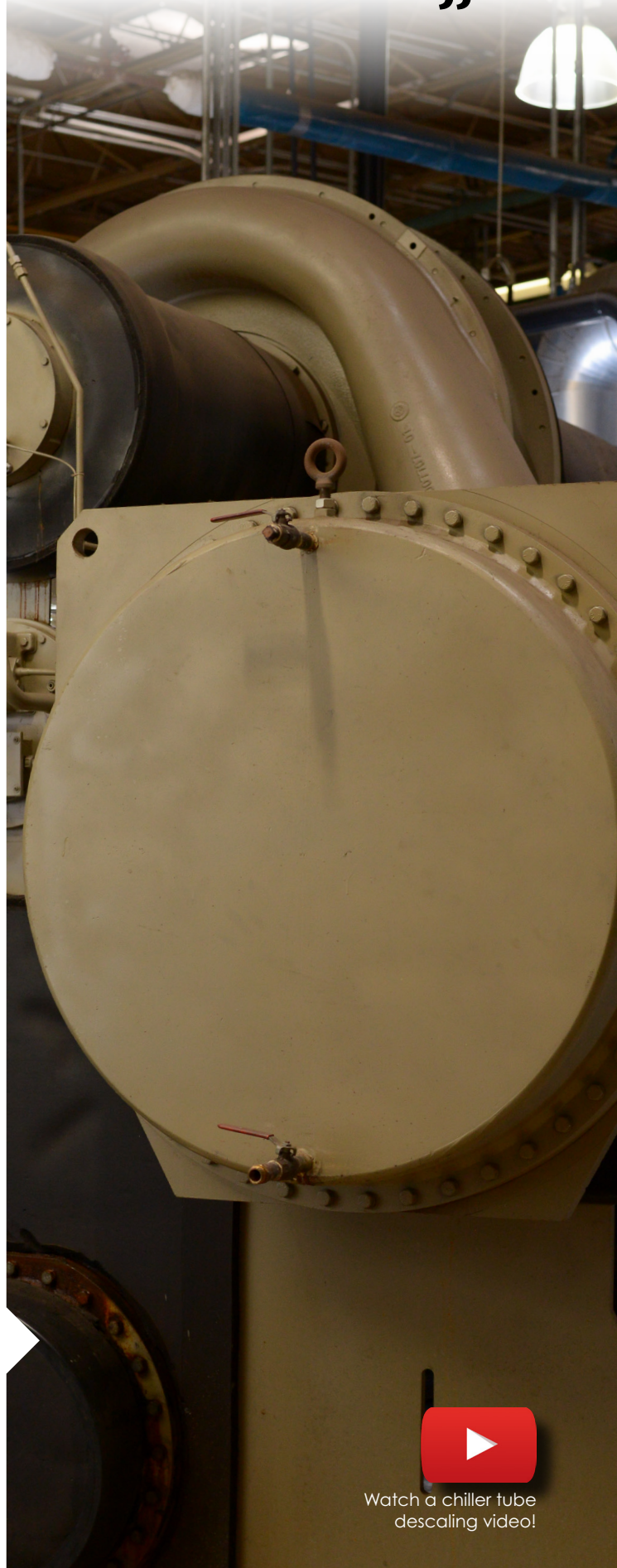
Adding **RYDLYME** to the cooling tower basin allows the tower's transfer pump to circulate the solution throughout the entire cooling system while in operation.

How to clean a cooling tower & chiller system:

1. Close make up water valve to tower basin.
2. Turn off all chemical or non-chemical water treatment, conductivity meters and pH meters.
3. It is recommended that all loose water scale, lime, mud, rust and other foreign matter be manually removed from tower basin prior to starting the cleaning.
4. Lower the water level in the tower basin to a point where the pump can maintain circulation without cavitation and close the bleed-off valve.
5. It is recommended that the fans be turned off during the cleaning.
6. Determine the proper amount of **RYDLYME** to be added to the system by speaking to one of our knowledgeable technicians.
7. To minimize excessive foaming, you may now slowly add required amount of **RYDLYME** to the tower basin.
8. The bubbling and foaming you will observe is a natural reaction of the **RYDLYME** dissolving the water-formed mineral deposits within the system.
9. Once the **RYDLYME** is in the tower and chiller system, allow it to circulate. Start charting your pH readings or performing calcium spot tests to measure the effectiveness of the **RYDLYME** solution during the cleaning (["Testing the Effectiveness"](#) is available on our website or contact us directly for a copy). If the **RYDLYME** cleaning solution expends prior to the completion of the recommended circulation time, there is more scale in the system. It is recommended that you repeat steps 6-9 to complete the cleaning.
10. It is recommended that the **RYDLYME** cleaning solution be cycled out of the system to prepare it for normal operation. At this time, strainers should also be removed, inspected and cleaned as well.

Once the cleaning material has been cycled from the tower system, turn your conductivity, pH meters or any other equipment back on. Return the make-up water and bleed-off valves per the manufacturer's recommendations. Lastly, resume normal system operation.

“It's as easy as circulating **RYDLYME** through the water side of the system and returning to service after a water flush”



Watch a chiller tube
descaling video!

WHY CHOOSE **RYDLYME**®?

World's Leading Biodegradable Descaler

Read the details, it's on the label.

While there are many alternatives to **RYDLYME** available, they are not created equal. The facts are on the SDS and label.

1. **Manufactured since 1942.** Apex Engineering Products Corporation has been manufacturing the same **RYDLYME** formula for nearly 80 years!
2. **World's leading biodegradable descaler.** Now this is a statement we're proud of. You can find **RYDLYME** success stories literally across the globe!
3. **Made in U.S.A.** **RYDLYME** is manufactured in an ISO Certified Facility in the United States of America. From

formulation to shipping, everything is done under one roof.

4. **NSF/ANSI 60 Certified.** **RYDLYME** is safe for use on potable water systems and is safe for personnel. You can hold **RYDLYME** in your open hand without injury. A win-win in our book.
5. **One product** - A single, dilutable product for water-side applications with cleaning times typically below 8 hours.

While other descalers on the market may say 'just like **RYDLYME**' - there really is no comparison.

1.

3.

5.



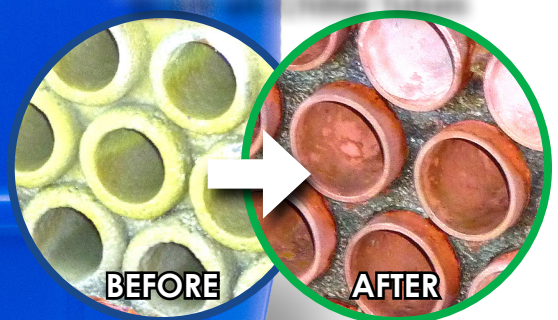
2.

4.

Scale on Heat Exchanger Plates



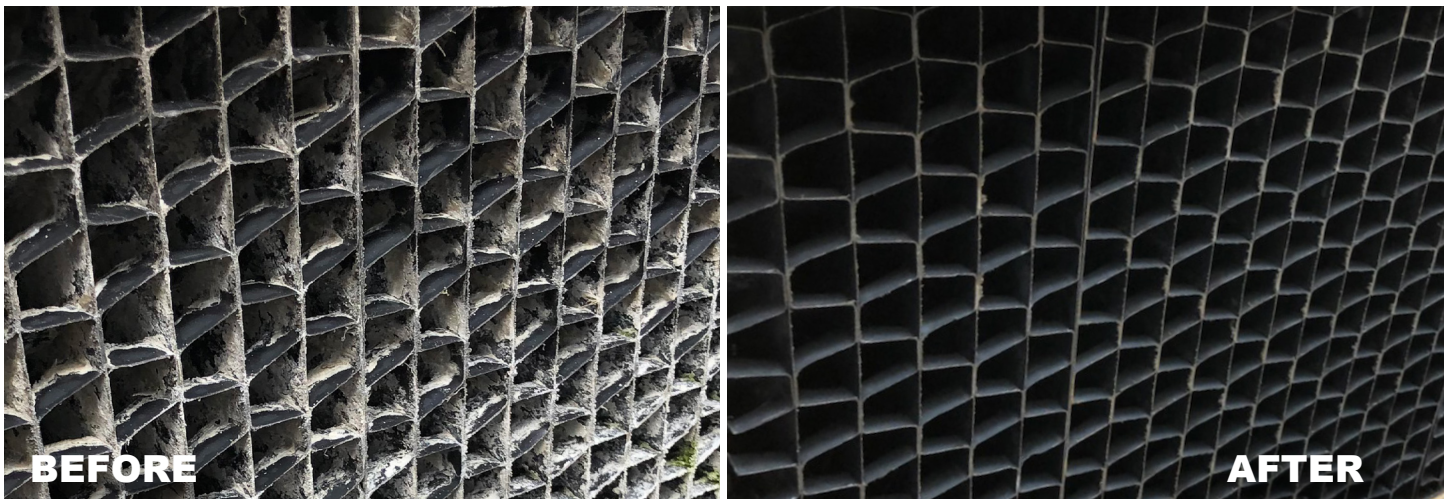
Scale on Chiller Tubes



EMBASSY COOLING TOWER & CHILLER CLEANING

An international embassy was having trouble keeping their workspace cool - indoor temperatures were reaching 31°C (87°F)! Realizing their HVAC system was in desperate need of maintenance, the embassy personnel sought out a solution with their service contractor to dissolve the severely accumulated water scale deposits within their cooling tower and chiller. Upon presenting **RYDLYME**, the service technician and manager did not believe **RYDLYME** would be an effective solution to dissolving their water scale deposits. All prior attempts at dissolving the water scale deposits had failed. Despite their doubts, **RYDLYME** was given an opportunity.

RYDLYME was circulated via their 130 ton cooling tower and Multistack chiller. Flow on the tower side was visually improved - the service contractor noticed over a 50% increase! The service contractor and staff alike were pleasantly surprised with the success and effectiveness of **RYDLYME** on the scale deposits! The staff was ecstatic to have their system working properly again and have since implemented a maintenance program utilizing **RYDLYME**! Very cool!



CHALLENGE

A 130 ton cooling tower & chiller with severe water scale deposits were unable to maintain adequate workspace temperatures.

SOLUTION

A total of 300 liters (80 gallons) of **RYDLYME** were circulated through the cooling water loop for 16 hours due to scale severity.

RESULTS

The cooling tower noticeably improved and flow increased over 50%. The system now has no problem achieving a comfortable office climate. The embassy has now adjusted their service agreement to utilize **RYDLYME**.

“Effective, 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, High Foam Formulation!

HOW TO USE RYDALL CC?

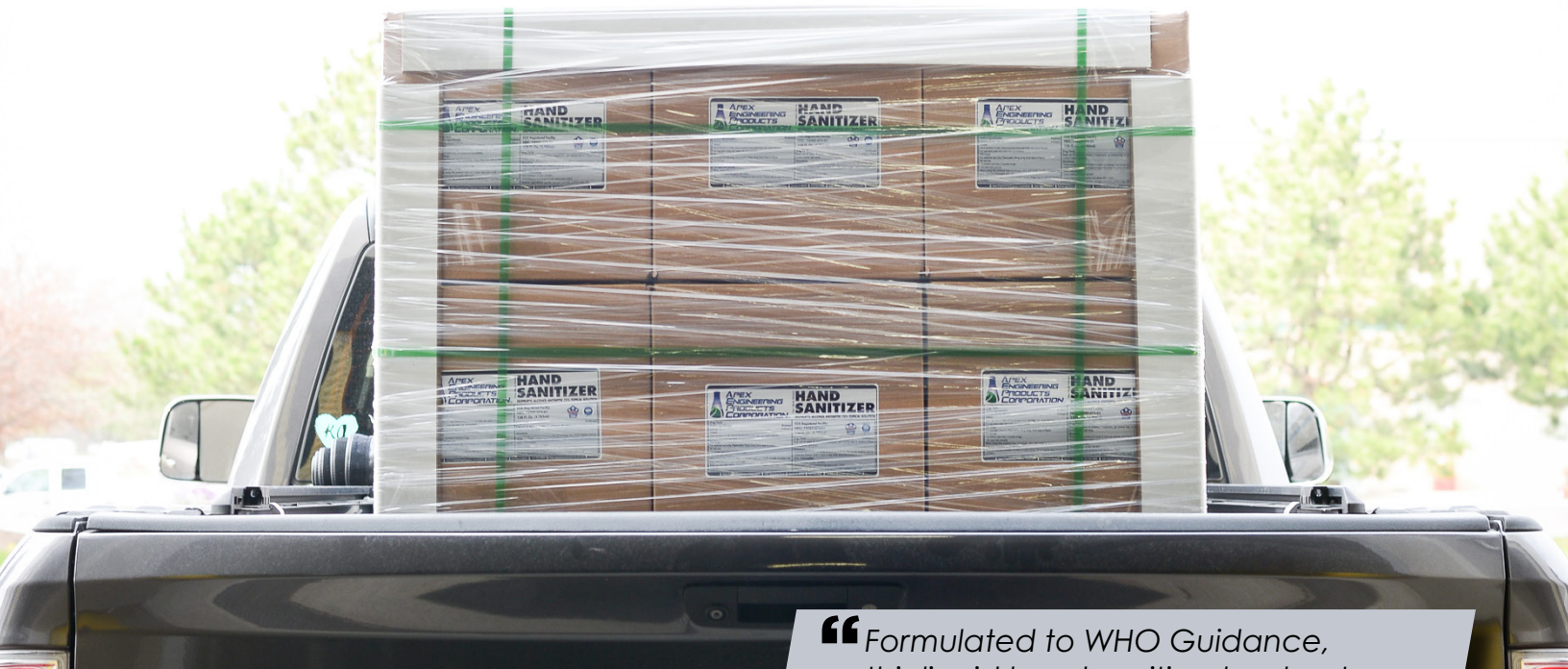
Simply dilute 1 part **RYDALL CC** and 2 parts water, spray, let soak and rinse away! For application questions and information please contact an Apex Engineering Products representative at: **630-820-8888!**



Easily penetrates through dirt and other airborne debris!

Giving back to move forward

Hand sanitizer donated to local recreation, non-profit & educational organizations



“Formulated to WHO Guidance, this liquid hand sanitizer has kept many businesses and people safe.”

With more businesses returning to normal, face to face interactions will resume. To keep the community safe and healthy, Apex Engineering Products Corporation (AEPC) decided to reach out to local businesses, non-profit organizations, safety & law enforcement to offer to donate liquid hand sanitizer.

AEPC, manufacturer of the World's Leading Biodegradable Descaler **RYDLYME**, is committed to providing high-quality specialty chemicals that meet or exceed our customer's requirements in a timely fashion. We urgently, yet effectively, retooled a section of our production/manufacturing facility to focus on making more essential products.

Formulated according to WHO guidance, AEPC's Hand Sanitizer utilizes an Isopropyl Alcohol Antiseptic 75% Topical Solution which helps reduce bacteria that potentially can cause disease. Manufactured in liquid form, this hand sanitizer can be easily distributed to refill sanitizer pumps or stations from the transparent 1-gallon container or can be poured directly on personnel's hands with the easy to grab handle.



Hand sanitizer pallet being loaded into a work van.

Production of our hand sanitizer has helped keep personnel on the front lines safe and able to continue to provide essential services.

AEPC would like to thank the front line workers who have helped keep our country safe throughout the uncharted times of this pandemic.

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 & HAND SANITIZER



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.



HAND SANITIZER is formulated according to WHO guidance, AEPC's Hand Sanitizer utilizes an Isopropyl Alcohol Antiseptic 75% Topical Solution which helps reduce bacteria that potentially can cause disease! Call for pickup!

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!

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 nearly 80 years!**