









**FEATURES:** Liquid Scale Dissolver is a powerful blend of hydrochloric acid and low-foaming corrosion inhibitors with a built-in pH color indicator. Use it to remove calcium carbonate (lime scale) and corrosion deposits (iron oxide) quickly and efficiently from evaporative condensers, cooling tower systems and shell and tube condensers. It will safely descale copper, steel, iron, brass, wood, rubber and plastic equipment

- APPLICATIONS (FOR DESCALING):**
- Cooling Towers
  - Evaporative Condensers
  - Closed Chilled Water Systems
  - Hot Water Boilers

**WARNING:** This product can expose you to Gentian Violet (Crystal Violet), which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**DIRECTIONS:** For use by HVACR professionals only.

-  Goggles, gloves, and other protective garments should be worn when using this product.
-  Drain water from sump and flush system to remove loose scale and sludge.
-  Fill with fresh water, adding one gallon of Liquid Scale Dissolver for every 20 gallons of water in the system.
-  Circulate acid until all scale is removed. Follow color chart on side panel
-  System is free of scale when the solution stays green color for 30-45 minutes (if it is needed, use the pH test strips included with the package to determine whether the solution has been neutralized).
-  Add more Liquid Scale Dissolver as needed.
-  After every third addition of acid, flush the system and add fresh water before dosing again.
-  After cleaning, thoroughly rinse system with flowing water, making sure to thoroughly flush residue.

4330-01



# Liquid Scale Dissolver

SCALE & CORROSION REMOVAL

Fast-Acting Descaler

Low-Foaming Corrosion Inhibitor

pH Color Control



For Use By HVACR Professionals Only.

55 U.S. Gallons (208.2 Liters)



**DANGER** Harmful if swallowed. Toxic if inhaled. Causes severe skin burns and eye damage. May cause respiratory irritation. May cause drowsiness or dizziness.

**PREVENTION:** Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection.

**RESPONSE: IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**IF ON SKIN (OR HAIR):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

**IF SWALLOWED:** Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. DO NOT induce vomiting.

**STORAGE:** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**DISPOSAL:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**KEEP OUT OF REACH OF CHILDREN.**

**CONTAINS (CAS#):** Hydrochloric Acid Solution (7647-01-0), Water (7732-18-5), Inhibitor (Proprietary), Cyclohexylamine Hydrochloride (4998-76-9), Propan-2-ol (67-63-0), Gentian Violet (Crystal Violet) (548-62-9).

**COLOR CHART**

SOLUTION COLOR	SOLUTION STRENGTH
GREEN	Strong Acid
BLUE / PURPLE	Neutralized Acid

Not Compatible With: Aluminum, Stainless Steel or Galvanized Metal. Use on Galvanized Metal can damage zinc and release flammable hydrogen gas.

**ADDITIONAL INSTRUCTIONS:**

Closely supervise the entire cleaning operation. Do not leave Liquid Scale Dissolver in the system longer than is necessary to remove scale build up, and never longer than 6 hours. Be careful about cleaning systems which may have corroded to the extent that metal is held in place with scale or corrosion products. When these deposits are removed, leaks may develop. Vent tanks and closed systems to prevent the build up of pressure and possible rupture (explosion) caused by carbon dioxide gas which is released by the action of acid on lime scale. Make sure that the recirculating water containing Liquid Scale Dissolver will not be carried away by air or be drained or splattered on personnel, surrounding concrete surfaces, grass, plants, automobiles or other surfaces which might be damaged by acid solutions.



Distributed by: Nu-Calgon  
2611 Schuetz Rd.  
St. Louis, MO 63043  
Customer Service: 800-554-5499  
Chemical Emergency: 800-424-9300  
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