

# Tower & Boiler De-Scale

## CONCENTRATE

Product # 714

### DESCRIPTION

After a tower / boiler / heat exchanger is placed into service, numerous solid constituents may enter the units with the feed water and some portion of the insoluble particles can be expected to deposit on surfaces. If not removed, these deposits accumulated over a period of time will affect the efficiency of the unit and can eventually lead to failure. The need for occasional chemical cleaning during the life of the equipment has become a recognized fact and should be accepted as a routine maintenance practice. A service cleaning of every 3 to 4 months is recommended. This frequency should be increased if individual unit operating history dictates.

Tower and Boiler De-Scale attacks rust, scale and deposits but not the base metal, cleans complex equipment without dismantling, penetrates and disperses soluble deposits and provides moderate foaming to minimize fuming. The product contains a highly active material that quickly dissolves mineral scale and oxidation build-ups. It also contains an inhibitor which makes it non-corrosive to metals.

### USAGE

For use in towers, condensers, supply lines, boilers and heat exchangers. Recommended for industrial use by professionals.

### DIRECTIONS

**FOR CONDENSER SYSTEM APPLICATION: For galvanized cooling towers and boilers.** Flush entire system with fresh water. Fill the tower to the operating level and begin circulation of the system. Initially add 1 gallon of Tower & Boiler De-Scale for every 10 gallons of water in the system for light to moderate scale. Add 1 gallon for every 5 gallons in the system for a heavy scale. Circulate the tower water for 15 minutes. Check the pH of the tower water. If the pH is above 2.0, add more De-Scale to lower the pH to the 1.5 to 2.0 range. Maintain the pH of the tower water in the 1.5 to 2.0 range for 4 to 6 hours by further additions of Tower & Boiler De-Scale. Drain and flush the tower system thoroughly until the pH returns to normal, 7.0. *IF SCALE IS STILL PRESENT, REPEAT THE ENTIRE PROCEDURE.*

**FOR DIRECT APPLICATION:** For cleaning and galvanized surfaces to remove white rust, dilute with 5 to 10 parts of water, depending on the severity of scale or deposits. Brush or mop on fixed objects. Use a brush to loosen heavy deposits after Tower & Boiler De-Scale has penetrated for several minutes. Rinse thoroughly with water after cleaning.

**IMPORTANT:** Do not use this product on aluminum, anodized aluminum, porcelain, enamel surfaces, chrome or decorative brass fixtures. Coat such surfaces before use of product. If Tower & Boiler De-Scale should come into contact with these surfaces, rinse thoroughly with water.

**PRECAUTION:** Tower & Boiler De-Scale MUST NOT be used through hand pumped compressed air sprayers. This may cause the seals to fail, resulting in possible injury or property damage.

### PRODUCT SPECIFICATIONS

APPEARANCE	Clear liquid
ODOR	Acidic
VISCOSITY @ 77°F	50 cps
SPECIFIC GRAVITY at 77°F	1.104
WEIGHT / Gallon at 77°F	9.2 Lbs
WATER SOLUBILITY	Excellent
pH IN CONCENTRATE	1
SHELF LIFE	1 Year plus in unopened container
PACKAGING	55, 35, 15 Gallon drums 5 Gallon pails

### SAFETY INFORMATION

**Warning:** Contains Hydrochloric Acid. Gloves and goggles recommended.

**DANGER:** KEEP OUT OF REACH OF CHILDREN. DO NOT STORE IN METAL CONTAINERS.

**EXTERNAL CONTACT:** Wipe product off gently, and flood with water. Wash area freely using plenty of soap, then cover with baking soda.

**INTERNAL:** Drink a teaspoonful or more of milk of magnesia, chalk, soap softened in water, milk, or raw egg white. *CALL A PHYSICIAN IMMEDIATELY.*

Quality  Chemical

1835 N.E. 144th Street, North Miami, Florida 33181  
(305) 944-2837 • (888) 355-5540 • Fax (305) 944-6857  
[www.QualityChemical.com](http://www.QualityChemical.com)