



## DRAFT CHOICE™

# ACID LINE CLEANER

## DISSOLVES SCALE DEPOSITS

*For Beer Lines, Couplers, Taps and Brewery Equipment*

A heavy duty acidic detergent formulated to dissolve calcium oxalate (beer stone), calcium carbonate and other hard water scale deposits which accumulate in beer lines, couplers, taps and most other beer and brewery equipment. Assures clean draft lines and consistently flavorful beer. Suitable for well maintained or heavily soiled lines. Contains a red dye indicator to assure complete line flushing and chemical neutralization. Does not contain hydrochloric or nitric acids, which can harm stainless steel and nylon tubing. Meets the standards for acid line cleaners established by the Brewer's Association in its "Draft Beer Quality Manual." Very low foaming and highly concentrated.

### Directions for Use

1. This product is highly corrosive. Before use, read and understand the hazard information on the right panel as well as the Safety Data Sheet for this product. ALWAYS wear the recommended personal protective equipment when handling or working with this product.
2. Remove the beer faucets and couplers for hand cleaning and gasket inspection.
3. Using an electric recirculating pump (the method preferred by the Brewers Association), push beer out of draft lines by pumping clean, warm water in (80 - 110°F). Leave water in the lines. Fill the cleaning solution circulating tank or reservoir with warm water.
4. Using the following formula, calculate the liquid volume the draft line system will hold (consult you Service Representative if you need assistance with this). Make sure to include the volume in the draft lines themselves as well as the volume of the cleaning solution reservoir.

**Example:** 10' of standard 3/8" ID draft line holds 0.057 gallons  
 + the volume of the cleaning solution reservoir  
 = Liquid Volume

5. Using the liquid volume calculated in step 4 above, add the correct amount of this product to the water in the cleaning solution reservoir, based on the soil level to be cleaned:

*For routine cleaning of well-maintained draft lines:* Use 3.5 oz. per gallon of water (1% cleaning solution).  
*For cleaning neglected/heavily scaled draft lines:* Use 7 oz. per gallon of water (2% cleaning solution).

**Example:** Liquid Volume = 2 gallons  
 Routine cleaning of normal scale level: 3.5 oz/gal. x 2 gals = 7 oz. of this product  
 Cleaning neglected lines/heavy scale: 7 oz/gal. x 2 gals = 14 oz. of this product

6. Mix this product into the water in the cleaning solution reservoir until it is uniform.
7. Using the pump, circulate the cleaning solution through the draft lines (in the opposite direction of the beer flow), back into the reservoir, then back through the lines again. A pump rate of 1-2 gallons per minute is recommended. Continue circulating cleaning solution for a minimum of 15 minutes to assure complete descaling. Maintain a solution temperature of 80 - 110°F.
8. If static or pressure pot cleaning processes are used, pump cleaning solution into lines until water has been completely displaced. Allow cleaner to remain in lines for a minimum of 20 minutes before purging with clean water.
9. When the cleaning period is complete, push a sponge or brush through the lines to loosen soils.
10. Flush the cleaning solution out of the lines with clean water into the drain. Flush for at least 5 minutes until all chemical residue and visible debris has been removed. Color tint of solution should be completely eliminated and solution should be water clear. Use pH test strips (or a pH meter) to assure that the exiting solution has been completely neutralized and solution pH matches that of tap water.
11. The Brewers Association recommends that this procedure be performed every three months (12 weeks) to assure optimum beer taste.

### Safety Reminder

Consult product label and Safety Data Sheet (SDS) before use. SDS's may be downloaded from [www.crown-chem.com](http://www.crown-chem.com).



### Technical Specifications

Appearance	Red Liquid
Odor	Characteristic
pH (1% solution, 22°C)	<2.0
Foaming	Very Low
Flash Point	None
Bulk Density (lbs/gal, 22°C)	9.90 ±0.1
Stability Range	40-100°F
Free Alkalinity (as Na <sub>2</sub> O)	None
Solubility (in H <sub>2</sub> O, 22°C)	100%
Phosphate Content (as P)	<10.0%

### Product Number

18806  
 18841  
 18855

### Packaging

6x1 qt. case  
 4x1 gal. case  
 55 gal. drum