



# ***BrewCaustic Cleaner***

## **Non-Foaming High Caustic Cleaner**

### **DESCRIPTION**

**BrewCaustic Cleaner** is sodium and potassium based, liquid caustic cleaner with surfactants and water conditioning agents designed specifically for circulation cleaning of brew kettles, fermenters, packaging equipment, keg washing and all other brewery processing equipment.

#### **Advantages/Properties**

- Well formulated product that can handle hard water and is free rinsing.
- Liquid; easily dispensed through electronic devices and supply pumps.
- Non-foaming: prevents pump cavitation. Leaves surfaces clean and bright.
- Phosphate free.

### **DIRECTIONS FOR USE**

#### **Cold Processing Equipment Cleaning**

Use **BrewCaustic Cleaner** at 130F-155F for circulation cleaning at .5%-2% causticity, depending on the soil load. Circulate solution for 15 – 30 minutes. Rinse thoroughly prior to using **BrewAcid** during the acid wash cycle. Sanitize equipment using recommended Zee Company sanitizer.

#### **Brew Kettle Cleaning**

Use **BrewCaustic Cleaner** at 155F-165 F for circulation cleaning at 2.0%-4.0% causticity, depending on the soil load. Circulate solution for 30 – 60 minutes. Rinse thoroughly prior to using **BrewAcid** during the acid wash cycle. Sanitize equipment using recommended Zee Company sanitizer.



| NaOH % (w/w) | Volume of BrewCaustic Cleaner (Gallons) | Volume of BrewCaustic Cleaner (Fluid Ounces) | Volume of BrewCaustic Cleaner (Liters) | Total Volume       |
|--------------|-----------------------------------------|----------------------------------------------|----------------------------------------|--------------------|
| 0.25%        | 0.19                                    | 24.3                                         | 0.72                                   | 31 Gallons (1bbl.) |
| 0.50%        | 0.38                                    | 48.6                                         | 1.44                                   | 31 Gallons (1bbl.) |
| 0.75%        | 0.56                                    | 71.7                                         | 2.12                                   | 31 Gallons (1bbl.) |
| 1.0%         | 0.75                                    | 96                                           | 2.84                                   | 31 Gallons (1bbl.) |
| 2.0%         | 1.50                                    | 192                                          | 5.68                                   | 31 Gallons (1bbl.) |
| 3.0%         | 2.26                                    | 289.3                                        | 8.55                                   | 31 Gallons (1bbl.) |
| 4.0%         | 3.01                                    | 385.3                                        | 11.39                                  | 31 Gallons (1bbl.) |

### Conductivity Chart

| % Sodium Hydroxide (w/w)<br>(from BrewCaustic Cleaner) | Conductivity (mS/cm) |
|--------------------------------------------------------|----------------------|
| 1.0%                                                   | 60.27                |
| 1.5%                                                   | 87.61                |
| 2.0%                                                   | 112.4                |
| 2.5%                                                   | 131.0                |
| 3.0%                                                   | 157.2                |

\*Conductivity may vary based on the temperature of the cleaning solution.



All surfaces must be rinsed with potable water before reuse.

**Contact Zee Company for SDS documentation.**

*DO NOT MIX THIS PRODUCT WITH ANY OTHER CHEMICAL UNLESS DIRECTED TO DO SO BY ZEE COMPANY!* Avoid contact with acids. Dangerous gasses may be released.

Contact ZEE COMPANY for further use directions.

#### **PHYSICAL PROPERTIES**

|                     |              |
|---------------------|--------------|
| Appearance:         | Clear liquid |
| Weight per gallon:  | 11.28 pounds |
| Color:              | Dark Brown   |
| Odor:               | Mild         |
| pH                  | >12.5        |
| Chemical Stability: | Stable       |
| Biodegradability:   | Complete     |