



Clean it like you mean it!

## Kemphos 2001 usage methods

**Method of Use (Dosages)** - For Cleaning stainless steel, plastic and glass containers, filling equipment, bulk tanks, vats pumps, cooling equipment and other machinery that come into contact with beer.

### For larger users such as Breweries and Craft Brewing

- Prepare a solution of 0.5 - 2% Kemphos 2001-CTSP Pink in tepid water (1-4.2 pounds in 25 gallons water or 0.5-2.0 kg in 100 liters water)
- Apply by brush/cloth or circulate for 10-20 minutes.
- Rinse with tap water.

### For smaller users such as Home Brewing

- Prepare a solution of Kemphos 2001-CTSP Pink: 1-3 tablespoons powder (1-2 sachets) in one gallon of tepid water or 1-2 teaspoons (3.5-7g) powder in 1 liter of tepid water.
- Apply by brush/cloth, soak or circulate for 15-30 minutes.
- Rinse well with hot water.

After a long and stressful fermenting process, no one wants to face the disappointment of running into contamination from your equipment. Yet this is altogether too common. Small amounts of debris left over from previous batches, that little bit of residue left in the transfer line, or the odor left in the tanks or vats that you just couldn't quite eliminate.

### *There are ways to stop the cycle from repeating!*

Products specifically designed for the fermented beverage industry can have the biggest impact since they are formulated to remove tartar, color, protein and organic soils. Start with the Kemphos 2001 Pink [LINK], a Chlorinated Trisodium Phosphate (CTSP) that has been used in highly sensitive food and beverage applications for over 50 years. This is by far the easiest product to use due to the visual indicator which will assist with a rigorous cleaning. This product is non-corrosive to stainless steel, natural and synthetic rubber, plastic, glass and other common surfaces.

Running Kemphos 2001 Pink through equipment, transfer lines, tanks and other equipment is as easy as seen here [VIDEO LINK] and here [VIDEO LINK]. Just remember, "Until you see pink, just repeat!"

If your environmental regulations are more restrictive, you can use Sterox and Sterox K [LINKS] to obtain an equivalent cleaning. These cleaning agents are chlorine-free, caustic-free and environmentally safe. Sterox and Sterox K are both used at the same concentrations in your operations and proven to be equally as effective in cleaning and pre-sanitization steps.



So, what is the difference between these cleaners? While the Sterox is the most commonly used product, many customers choose Sterox K due to the lack of phosphates and low sodium. Sterox is an oxygen-based cleaning powder and Sterox K is a potassium-based cleaner. Both products have been used in fermented beverage applications for over a decade and have an incredible track record of performance.

Ravago Chemicals North America (RCNA) [LINK] recommends using cleaning products both before and after production. Even if tanks, hoses or vats have been cleaned after the last cycle, contamination can continue to creep into the equipment from natural elements in the air or other nearby production. Odor can be an unexpected issue for storage tanks or other apparatus that have been sitting idle. Just before production, a final cleaning with Sterox or Sterox K and a quick water rinse will help to guarantee the best results!

Common Usage Methods (Sterox and Sterox K):			
	Light Cleaning	Typical Example	Heavy Cleaning
<b>Solutions (gallons)</b>	100	100	100
<b>Dosage (pounds)</b>	9	13	16
<b>% lbs. per gallon</b>	9.0%	13.0%	16.0%
<b>% kgs per liter</b>	1.1%	1.6%	1.9%
<b>Waiting time after solution made</b>	Prompt: 5-10 minutes		
<b>Water Temperature (Ferenhwit)</b>	80-140° F Ambient- for non fermentation or frequent cleaning-Our advantage!		
<b>Circulation time</b>	20-60 Minutes		
<b>Rinse time</b>	20-60 Minutes		
<b>Rinse with what?</b>	Water (few use citric but not needed)		

All of these cleaning materials are considered relatively safe for your employees or seasonal workers. While RCNA always recommends the use of gloves, masks and boots during a cleaning cycle, the Kemphos 2001, Sterox or Sterox K will not cause a burn in contact with skin like other, more aggressive chemicals can.

Lower your energy costs by running Kemphos 2001, Sterox or Sterox K in your operation. Since these cleaners do not require your water to be heated, there is a much lower total cost of use. Additionally, since the Kemphos 2001 Pink provides a pink indicator, your operators will know immediately once the equipment is clean, lowering the use of unnecessary product and reducing the time spent on this critical step. There is no need to run a neutralizing step after using these cleaners, which can provide a final benefit to the operation.

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