LIQUID CIRCULATION CLEANER

A heavy-duty liquid caustic cleaner designed for the food industry.

❖ *BENEFITS*

- ❖ Automated CIP Cleaner
- ❖ Low Foam
- ❖ Fast Soil Penetration
- ❖ Emulsifies Fats, Grease, and Oils
- ❖ For Hot and Cold Process Surfaces

❖ *DESCRIPTION*

LIQUID CIRCULATION CLEANER is a concentrated alkaline CIP cleaner designed for automatic dispensing into re-circulation CIP systems or "single service" CIP systems. High detergency and low foaming enhance cleaning performance and retard the formation of air pockets caused by foam in low velocity areas in circulation systems. LIQUID CIRCULATION CLEANER quickly penetrates soils and emulsifies fat, grease, and oil residues, "cook - on" or "burn - on" from process surfaces. LIQUID CIRCULATION CLEANER has a blend of 2 different chelators, which reduces or eliminates beer stone formation. Its unique blend of alkali allows it to withstand storage temperatures as low as 32°F without freezing. This allows LIQUID CIRCULATION CLEANER to be stored in areas where most caustic cleaners cannot.

❖ *PROPERTIES*

APPEARANCE. . . . . .OFF YELLOW, SEMI VISCOUS LIQUID

ODOR. . . . . .SLIGHT, TYPICAL

FOAM. . . . . .LOW

WETTING . . . . . .GOOD

LIQUID CIRCULATION CLEANER

❖ *GENERAL USE DIRECTIONS*

LIQUID CIRCULATION CLEANER is recommended for use in "hot" and "cold" process CIP cleaning circuits.

CIP: Immediately after processing, rinse thoroughly with warm water. Make a solution using 2 to 9 quarts of LIQUID CIRCULATION CLEANER per 50 gallons of water. Circulate the cleaning solution for 15 to 30 minutes at a temperature of 160° to 180° F.
Drain the systems. Rinse with warm to hot water. (Rinse water should match cleaning temperature.)

Brew Kettles and Lauter Tuns: Use 2 ounces per gallon of water for single brew cleaning. For multiple brew cleaning use 3 ounces per gallon of water. Circulate for 30 to 40 minutes at temperatures between 160° and 180° F. Rinse with potable water after use.

HTST & Heat Exchangers: Use 3 to 4 ounces per gallon of water, circulate for 30 minutes at 180° F. Rinse with potable water after use.

Acid Rinse: Add one ounce of FIVE STAR ACID CLEANER #5 to 10 gallons of water & circulate as directed on its label. Rinse with potable water. (The use of all cleaning compounds must be followed by a potable water rinse.) Drain the system. Just prior to reuse, sanitize with 200 ppm chlorine or according to the local health standard.

LIQUID CIRCULATION CLEANER can also be used as a booster in foam applications. Use LIQUID CIRCULATION CLEANER at a rate of 1 to 2 quarts in conjunction with 1 gallon of FIVE STAR ALL PURPOSE #2 to 50 gallons of water. See the ALL PURPOSE #2 label for the foaming procedure.

❖ *COMPLIANCE*

LIQUID CIRCULATION CLEANER is authorized by the U.S. Department of Agriculture for use in soak or with steam and mechanical devices in official meat, poultry, rabbit, and egg processing establishments. After use, surfaces must be rinsed with potable water.

❖ *SAFETY*

DANGER: Contains Sodium Hydroxide. Corrosive to skin and eyes. Do not get on clothing. Rinse thoroughly after use. DO NOT MIX WITH ACIDS, A VIOLENT REACTION WILL OCCUR. Wear protective gloves, goggles, and clothing when handling this product.

FIRST AID:
For Eyes: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes. Then continue rinsing. Call Poison Control Center or doctor for treatment advice.
If Swallowed: Call Poison Control Center or doctor immediately for treatment advice. Have person sip on a glass of water if able to swallow. Do not induce vomiting unless told to do so by the Poison Control doctor. Do not give anything to an unconscious person.
If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Poison Control Center for treatment advice.
If Inhaled: Move person to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a Poison Control Center or doctor for treatment.
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measure against circulatory shock, respiratory depression and convulsion may be needed.