P.B.W.

Patent Nos. 5,663,132 & 5,789,361

Environmentally friendly, caustic replacement with multiple uses.

❖ *BENEFITS*

- ❖ Replaces Caustic Soda cleaners
- ❖ Effective at All Temperatures
- ❖ Free Rinsing
- ❖ Safe on Polycarbonate surfaces
- ❖ Safe to handle
- ❖ Generates 4 - 5% Oxygen
- ❖ Non-hazardous & Non-corrosive
- ❖ Excellent hard water tolerance
- ❖ Removes protein soil and staining, baked on carbon, and fatty acids

❖ *DESCRIPTION*

P.B.W. is a buffered alkaline detergent that has been proven to be more than an effective substitute for caustic soda cleaners. Because of its unique formulation of buffers and mild alkalis, it is safe on skin as well as soft metals such as stainless steel, aluminum, and on plastics. P.B.W. uses active oxygen to penetrate carbon or protein soils and is not effected by hard water. The oxygen also helps in reducing B.O.D. and C.O.D. in wastewater, which is an added environmental benefit.

P.B.W. has been formulated as a C.I.P. cleaner and is very effective in removing protein soils found on brew kettles, fermenters, conditioning tanks, filters and all packaging areas. The concentrations to remove these soils are typically in the 1% range. However, due to soil and water conditions this concentration will vary. To help in hard water areas P.B.W. has been formulated with enough chelators to tolerate hard water over 17 grains.

P.B.W. is an excellent choice as a soak cleaner because it does not require excessive heat as do most caustic based cleaners. This product has cleaned brass and copper filters, and industrial aluminum surfaces successfully.

❖ *PROPERTIES*

APPEARANCE. . . . . .WHITE POWDER

RINSING ABILITY . . . . . EXCELLENT

FOAM . . . . . .NONE ABOVE 100 ° F

pH OF 1% SOLUTION 12.0%

❖ *GENERAL USE DIRECTIONS*

CIRCULATION CLEANING: Use 1 to 3 ounces per gallon depending on soil load. Heat to 130° to 180° F for 30 minutes.

CARBON REMOVAL: Use 6 to 8 ounces per gallon of water. Heat to 140 ° F for 4 hours or allow to soak cold overnight.

When using P.B.W. in food processing areas the equipment that has been cleaned must be rinsed with potable water. Just prior to use, sanitize the equipment in accordance with public health standards.

❖ *SAFETY*

DANGER: Can be harmful if swallowed. Can cause eye irritation. Contains sodium metasilicate and sodium carbonate.

FIRST AID: For contact with skin and eyes, flush thoroughly with cool running water. For eyes, flush for at least 15 minutes and get medical attention. If swallowed, do not induce vomiting. Drink large amounts of milk or water. Call a physician.

Rev. 07/03