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# ALKA-SHINE 990 HEAVY DUTY CAUSTIC "CIP" CLEANER FOR HEAT PROCESSING EQUIPMENT

### TYPICAL APPLICATIONS

**ALKA-SHINE 990** is recommended for cleaning pasteurizers (plate or tubular), evaporators, heat exchangers, pre-heaters, and other hot processing equipment. It is useful for heavy-duty cleaning of tough cleaning applications such as filters, presses, snack fryers, etc. It is acceptable to the USDA as a compound for use only in soak tanks or with steam or mechanical cleaning devices in all departments.

**ALKA-SHINE 990** inhibits the formation of calcium carbonate (CaCO<sub>3</sub>) precipitation during rinse cycles with powerful sequestering and chelating agents.

### CONCENTRATED

**ALKA-SHINE 990** is used at low use-cost dilutions. Special wetting agents provide extra cleaning power with good soil penetration for excellent rinsing ability.

### SAFETY

**ALKA-SHINE 990** contains caustic soda which causes burns. When handling, wear goggles or face shield and rubber gloves. While making solutions, add slowly to surface of solution to avoid violent spattering.

### HTST CLEANING DIRECTIONS

- 1) Add 9.5 pounds of **ALKA-SHINE 990** to each 100 gallons of cold water to equal 1 percent causticity.
- 2) Bring temperature up to 175°F - 185°F and circulate for 45 - 60 minutes.
- 3) Drain and rinse thoroughly with cold water.
- 4) Add 1 quart **NITRO-CIRC 963** to each 35 gallons of water and circulate at 140°F for a minimum of 30 minutes. Drain and flush with cold water.

### CLEANING OF HEAT EXCHANGER FOR FRYER

- 1) Add 9 pounds of **ALKA-SHINE 990** to each 100 gallons of water on pre-boil and boil over fryer to remove loose oil and fines.
- 2) Drain unit and hose bottom out. Using cold water, add enough **ALKA-SHINE 990** at 2 to 3 percent caustic level to fill the unit ¾ full. Heat to 200°F and circulate for 1½ to 2½ hours with additional time, depending on production and cleanup schedule.
- 3) Fill fryer up to normal level and continue for 1½ to 2½ hours with additional time, depending on production and clean-up schedule.
- 4) Drain fryer and bring heat up on first rinse cycle to minimum of 160°F for 20 minutes and dump. Check pH against normal plant water.
- 5) If pH check is excessively high, then refill water and repeat rinse. Check pH and, if normal, neutralize with **SAFE-T-PHOS 965** and leave at pH 6.

### PHYSICAL PROPERTIES

Appearance ..... Off-white Granular Powder  
 Odor ..... Slight  
 Foam ..... Low  
 Wetting Ability ..... Excellent  
 pH at 1 oz per gal ..... 12.5-13.5

**PRODUCT pH INDICATOR**

---- acid ---- neutral ---- alkaline ----

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14



### Seller Warranty

CH<sub>2</sub>O brand test reagent refills are available through your sales representative at no charge. Customers are required to confirm product compatibility via a control test for their specific application. CH<sub>2</sub>O recommends that you perform regular/daily testing to control chemical levels and cycles of concentration within established limits. Additional tests may be performed at your request. Test reports reflect conditions at the point when the analysis was performed. Results will change over time and with varying operating conditions.

Seller warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions. Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty. The exclusive remedy against seller shall be a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort. Jurisdiction for any issues arising from or relating to this product shall be in the courts of the State of Washington and the venue shall be Thurston County. Any controversy or claim arising out of or relating to this contract, or breach thereof, shall be settled by arbitration in accordance with the rules and procedures as stated in RCW 7.06 and shall be binding upon both parties without right to appeal, and judgment upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.

Applies to all products sold by CH<sub>2</sub>O, Inc., and is hereby communicated to all of its customers as a condition of sale. Use of CH<sub>2</sub>O products is subject to the Standard Terms and Conditions as listed on CH<sub>2</sub>O, Inc.'s website at: [www.ch2o.com](http://www.ch2o.com).

