

FIVE STAR HOMEBREW CLEANING PRODUCTS

CHEMICAL USAGE, HANDLING & SAFETY CHART

“Helping solve problems in your brewery!”

Made in USA

TIPS!

- Mix all powders in a bucket prior to adding them to your tank. Never add directly to the tank.
- Always add cleaners & sanitizers to water. Never add water directly on top of the chemicals.

ALKALINE - ENVIRONMENTALLY FRIENDLY
SANITIZERS
ACID CLEANERS
ADJUNCTS & STABILIZERS

ALKALINES

PRODUCTS	TEMPERATURE	USAGE
PBW NON-CAUSTIC POWDER · USER & ENVIRONMENTAL FRIENDLY · FREE RINSING	· 100-160°F water	· 1-2 oz. per gallon of water for single brew cleaning. · Run solution for 25-35 minutes. · Rinse with potable water immediately after CIP at same temperature as wash.
LLC LIQUID LINE CLEANER · FAST SOIL PENETRATION · LOW FOAM	· 100-180°F water	· Use at a rate of ½ oz. per gallon of water, circulate for at least 5 min. · Rinse water with potable water. Draw off rinse water until clear beverage appears, draw 16 oz. more and discard. · Standard “taste test” to determine if beer tastes okay.

SANITIZERS

PRODUCTS	TEMPERATURE	USAGE
STAR SAN HIGH-FOAMING SANITIZER · EXCELLENT FOR PARTS SOAK · NO RINSE REQUIRED	· 50-120°F water	· 1 fl. oz. per 5 gallons of water (300 ppm) · DO NOT RINSE. · PARTS SOAKING - 1 fl. oz. per 5 gallons. Soak for 30 sec., install wet. · DO NOT RINSE (when used at or <200ppm)
SANICLEAN LOW-FOAMING ACID ANIONIC · LEAVES TANK SPOTLESS · NO RINSE REQUIRED	· 50-120°F water	· 1 fl. oz. per 3 gallons of water (200 ppm) · Spray/ Soak for at least 3 minutes. Empty/ Drain. · DO NOT RINSE (when used at or <200 ppm)
IO STAR LOW-FOAMING IODOPHOR	· 50-120°F water (Caution: over 120°F gassing and corrosion to equipment may occur) NOTE: Cold temperatures may cause high foaming	· 1 fl. oz. per 5 gallons of water. · CIP for 5 min. · POTABLE WATER RINSE (Not required at 25 ppm or under)

ACID CLEANERS

PRODUCTS	TEMPERATURE	USAGE
B.S. REMOVER FOR STUBBORN SCALE OR STONE	· 120-140°F water	· Use at a rate of 1 oz. per gallon of water. · Allow a contact time of 10 minutes. · Drain and allow the surface to dry. · Rinse and sanitize just prior to next use.

ADJUNCTS & STABILIZERS

PRODUCTS	TEMPERATURE	USAGE
5.2 pH STABILIZER FOOD GRADE PHOSPHATE BUFFERS · PROVIDES CONSISTENCY BREW TO BREW · OPTIMIZES ENZYMATIC ACTIVITY	· Mash water temperature	· 2 oz. (by wt.) per 1 bbls. (31 gal) of water. NOTE: Amount of water is based on amount of finished products. · Place in mash tun while mashing in.
SUPER MOSS HB CARRAGEENAN - IRISH MOSS · MIXES RAPIDLY WITH COLD WATER · REDUCES HAZE IN FINISHED BEER	· Boil temperature	· 1 oz. (by wt.) per bbls. · Place in jar filled with cold water and shake for 30 sec. · After swell, apply to last 15 min. of boil.
DEFOAMER 105 10% SILICON DEFOAMER	· 1-200°F water	· Add as needed, not to exceed 200 ppm/batch. · Typical starting point is 1 drop in a 5 gal. batch. NOTE: DO NOT EXCEED THE FDA 200 PPM REQUIREMENT
PHOS ACID 10% PHOSPHORIC ACID · GREAT FOR ADJUSTING YOUR MASH	· N/A	· Use as needed to adjust water, to bring down pH.

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Product MSDS & Tech Sheets available online

www.fivestarchemicals.com

Emergency Telephone: Infotrac 800.535.5053

Have eye-wash station and safety shower readily accessible!



Five Star Chemicals & Supply, Inc.