HEARTLAND ENERGY GROUP LTD.

TECHNICAL DATA SHEET
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ALKALINE REPLACEMENT

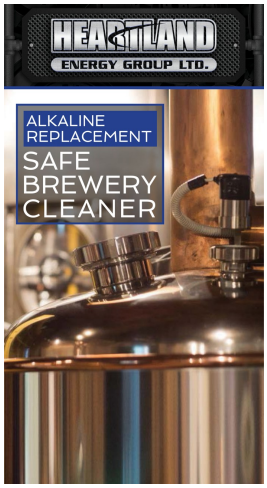
HEG Safe Brewery Cleaner

High-pH, high-foam brewery cleaner formulated without caustics

PART NUMBER	USE
HBC-BCR	**Industrial use only**

PACKAGE SIZES

32 oz, 1 Gal, 5 Gal, 15 Gal, 55 Gal, 275 Gal



HEG Safe Brewery Cleaner is a high pH, high foam solution formulated without the use of caustics such as sodium hydroxide, potassium hydroxide or other dangerous chemicals. This alkaline replacement deep cleans and removes hop resins, proteins and carbohydrate deposits without harming the inner walls of tanks, barrels, pipes and hoses, and performs effectively in all hard and soft water conditions. Use HEG Acid Replacement Safe Brewery Cleaner (#HBC-BAR) after this product for removal of beer stone, rust, minerals, lime, calcium and scale.

FEATURES & BENEFITS

- Caustic-free alkaline chemistry: no sodium hydroxide or potassium hydroxide
- Removes hop resins, proteins and carbohydrate deposits
- Will not harm the inner walls of tanks, barrels, pipes and hoses
- Performs effectively in all hard and soft water conditions
- Nonhazardous, noncorrosive, non US DOT and Canadian TDG regulated
- Biodegrades in 10 days or less
- Nondestructive to human skin tissue; odorless, no harmful chemical fumes
- Storage life of better than one year; Made in USA

TYPICAL PROPERTIES

Product type	Alkaline (caustic replacement) CIP cleaner concentrate
Form	Liquid concentrate
pH	High pH (alkaline), non-caustic
Foam profile	High foam
Odor	Odorless
Water compatibility	Effective in hard and soft water
Biodegradability	10 days or less
Corrosivity	Noncorrosive
Storage life	Better than one year (container closed)
HMIS rating	Health 0 / Flammability 0 / Reactivity 0 / PPE B

REGULATORY & ENVIRONMENTAL

- Nonhazardous and noncorrosive
- Non US DOT regulated
- Non Canadian TDG regulated
- Biodegrades in 10 days or less
- Made in USA

SAFETY & HANDLING

Wear protective eye wear. In the event of eye contact rinse eyes with water. Extended exposure or soaking in product may cause stinging in open sores, cuts or around fingernails. Use of nitrile gloves is suggested. Product at 100% concentration will attack aluminum. As with any cleaners keep out of reach of children. For industrial use only. Refer to the SDS for more information.

DIRECTIONS FOR USE

Use 1%–7% of HEG Safe Alkaline Brewery Cleaner per gallon of water at 130°–170°F and circulate solution for 15–20 minutes depending on the buildup. For heavy buildup removal use 4%–7% per gallon of water and circulate or allow to soak overnight depending on the severity of the build-up. Percentages may vary by the type of beer being brewed. Dilution rates and heat will vary depending on the beer brewed and severity of the buildup. Keep container closed when not in use.

Dilution guide

Solution %	oz per gallon of water
1%	1.5
2%	2.5
3%	3.75
4%	5
5%	6.5
6%	8
7%	9

RECOMMENDED USES

Brewery CIP and soak cleaning of fermenters, brite tanks, kettles, barrels, pipes, hoses and transfer lines. Step 1 of a two-step program: follow with HEG Acid Replacement Safe Brewery Cleaner (#HBC-BAR) for beer stone and mineral scale.

PACKAGING & ORDERING

Part # HBC-BCR
Available sizes: 32 oz, 1 Gal, 5 Gal, 15 Gal, 55 Gal, 275 Gal

Companion product: #HBC-BAR — HEG Acid Replacement Safe Brewery Cleaner

The information contained herein is believed to be accurate and is offered in good faith for the user's consideration and investigation. No warranty, express or implied, is made. Users should determine the suitability of the product for their own application. Refer to the Safety Data Sheet before use.