TECHNICAL DATA SHEET
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ACID REPLACEMENT

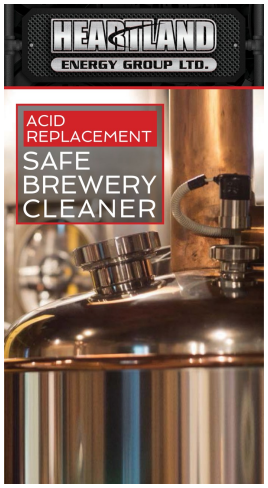
HEG Safe Brewery Cleaner

Low-pH acid replacement for beer stone, scale and mineral removal

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

PACKAGE SIZES

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



HEG Acid Replacement Safe Brewery Cleaner is one of the most powerful, yet safe, replacements for acid cleaners. It is a low pH acid that will remove beer stone, rust, minerals, lime, calcium and scale. Use #HBC-BAR as a follow-up wash to HEG Alkaline Replacement Safe Brewery Cleaner (#HBC-BCR). The product is safe for the user and the environment, biodegrades in 10 days or less, and is noncorrosive, nonhazardous and non US DOT and Canadian TDG regulated.

FEATURES & BENEFITS

- Powerful acid-replacement chemistry for beer stone, rust, minerals, lime, calcium and scale
- Designed as the follow-up wash to HEG Alkaline Replacement Safe Brewery Cleaner (#HBC-BCR)
- 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	Acid (acid replacement) CIP cleaner concentrate
Form	Liquid concentrate
pH	Low pH (acidic)
Odor	Odorless
Water compatibility	Dilute with water; effective in hard and soft water
Biodegradability	10 days or less
Corrosivity	Noncorrosive (see Safety & Handling for material compatibility)
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 concrete, masonry, marble, aluminum, zinc and galvanized metal. When cleaning aluminum, always dilute with water. 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%–3% of HEG Acid Replacement Safe Brewery Cleaner per gallon of water at 130°–170°F and circulate solution for 15–20 minutes depending on the buildup to remove any scale, lime, beer stone or other deposits. 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 acid wash of fermenters, brite tanks, kettles, heat exchangers, barrels, pipes and hoses to remove beer stone, mineral scale and rust. Step 2 of a two-step program following HEG Alkaline Replacement Safe Brewery Cleaner (#HBC-BCR).

PACKAGING & ORDERING

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

Companion product: #HBC-BCR — HEG Alkaline 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.