



Sustainable Food Processing

Keeping Food Safe

One-Step Alkali™

“Chemicals are chemicals?”
NOT ANYMORE!

What does extra processing time mean to you?

Where would these savings come from?

Is reducing the chemical footprint in your plant important to you?

DeLaval Cleaning Solutions’s new patent pending One-Step Alkali product, is a way you can turn CIP cleaning time into processing time. One-Step Alkali allows you to eliminate or greatly reduce the frequency of acid washes commonly associated with the cleaning of High Temperature equipment.

One-Step Alkali is a single, stand alone detergent - not an additive. Designed to improve the cleaning efficiency of your High Temperature CIP equipment systems by combining the caustic and acid cycles into a single cleaning step.

One-Step Alkali is a patent pending blend of caustic based builders designed to clean and control scale on processing equipment in a single cleaning cycle.

As part of DeLaval Cleaning Solutions’ product line of cycle time reduction cleaners, One-Step Alkali is designed to replace traditional separate caustic and acid wash cycles by offering the convenience of single cycle cleaning in one detergent. Therefore reduces cleaning time and increasing processing capacity in your facility. Incorporating the use of One-Step Alkali may also result in the ability to eliminate the necessity of maintaining or installing a separate acid CIP system wash tank.

By eliminating an additional wash step, your food plant processing time is maximized, and chemical, water, and effluent are minimized.



Traditional CIP programs include six key cycles:

- Pre-rinse
- Alkaline wash
- Rinse
- Acid wash
- Rinse
- Sanitize cycle

One-Step Alkali CIP Programs require only four key cycles:

- Pre-rinse
- One-Step Alkaline wash
- Rinse
- Sanitize cycle

How One-Step Alkali Works

One-Step Alkali is a new approach to CIP cleaning that utilizes a new, patent pending caustic-based detergent.

DeLaval chemists have combined the detergent cycle and the acid cycle into one step, saving time in the CIP process that can lead to a multitude of benefits for you.

The purpose of any CIP detergent is to break up, lift and remove soils. One-Step Alkali is no different in theory, however, it uses a patented combination of components in a synergistic way to combine and speed up the CIP cleaning process. One-Step Acid is proven effective. This low-foam detergent lifts and removes organic and proteinaceous soils while preventing and removing hard water scale.

One-Step Alkali characteristics include:

- Wetting – the ability to reduce surface tension, thereby maximizing detergent contact with all components

- Emulsification / dispersion – holding liquids and solids in suspension for removal.
- Solubilization – holding insoluble liquids in solution for removal.

Enhance™ Program

One-Step Alkali is one component of DeLaval Cleaning Solutions' *Enhance Program*. This program is designed to reduce time and improve your cleaning program.

Product Use:

- Method: Soak, circulation, and spray cleaning. After cleaning, post-rinse with potable water. Sanitize as required.
- Concentration: 1/2 to 4 oz. per gallon of water depending on soil.
- Temperature: 90° to 165°F for circulation cleaning.
- Cleaning Time: As required. Surface should not become dry during cleaning.
- Safety: Always utilize appropriate personal protective equipment as indicated in the MSDS. Handle and store as indicated on product label.



DeLaval Cleaning Solutions

a division of DeLaval Inc.

11100 North Congress Avenue
Kansas City, MO 64153-1296
Phone: 816-891-1600
Fax: 816-891-1505

www.DeLavalCleaningSolutions.com