



Complex^{TM/MC}

VB13

Defoamed additive for single stage heat treated surfaces

Description

Complex is an alkaline liquid detergent additive to caustic for all Dairy single stage CIP recovery systems. Complex is highly effective for single stage cleaning of evaporator and HTST installations. Complex is low foaming in use, hard water tolerant and is highly effective in the removal of milk soils. Complex can be used in a wide range of applications across the Food & Beverage industries.

Key properties

- Complex is a low foaming, highly concentrated liquid additive to caustic that enhances detergency during Dairy CIP applications and is especially effective against heat treated soils.
- Complex can be used throughout the Dairy in all CIP applications and is highly cost-effective in use when compared to blended caustic detergents.
- Complex can be used at different concentrations, and with different caustic levels, where soiling types vary. This provides the most cost-effective cleaning results throughout the Dairy.
- Complex can be used in a wide range of applications across the Food & Beverage industries, e.g. brewhouse CIP, beerstone and mould removal.
- Complex is used with caustic for single stage cold surface cleaning of bioenzymatic applications.
- Complex is suitable for automatic dosing when linked and dosed proportionally to caustic.

Benefits

- Highly effective in removing organic and inorganic scale deposits, thus improving operational efficiency.
- Suitable for automatic dosing and control by proportionally linking the additive pump to the caustic delivery pump, ensuring consistent delivery of product.
- Low foaming and suitable for CIP applications under conditions of high pressure and turbulence.
- As an additive to caustic, it can be used for all Dairy CIP systems via a ring main to give only the necessary levels of product for each individual CIP system requirements. This ensures the most cost-effective cleaning performance for each CIP operation.



Diverflow



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Use Instructions

Typical use concentrations for Complex are 0.1 - 2.0% v/v, 1 - 20 mL/L (0.13 - 2.5 oz/US gal) depending on the application, soiling and water hardness. Complex should always be added to dilute caustic (0.3 - 2% w/w) solutions in the CIP recovery tank. It cannot be added to concentrated caustic liquor directly. For HTST the recommended caustic levels are 0.3 - 1% w/w and for evaporators (whole milk) the caustic levels are 1 - 2% w/w. Complex containing solutions should be thoroughly rinsed after use to remove them from all food and beverage contact surfaces. Contact your Diversey representative for specific use instructions.

Technical data

Color/Form	clear, pale yellow liquid
Specific Gravity at 20°C	1.32
pH (1 % solution at 20°C)	12.1
Chemical Oxygen Demand (COD)	340 gO ₂ /kg
Nitrogen Content (N)	28 g/kg
Phosphorus Content (P)	3g/kg

The above data is typical of normal production and should not be taken as a specification.

Safe handling and storage information

Store in original closed containers or (where applicable) in an approved bulk tank, away from extreme temperatures. Full guidance on the handling and disposal of this product is provided in a separate Safety Data Sheet.

Product compatibility

Complex is safe for use on materials commonly found in the beverage and food industry when applied under the recommended conditions. In the event of uncertainty it is advisable to evaluate individual materials before any prolonged use.