



**Clear Solutions USA**

# ClearSol CIP PreBatch 20+

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## Technical Data Sheet

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### **LOW FOAM SURFACTANT AND HARD WATER CONTROL ADDITIVE FOR CONCENTRATED CAUSTIC SOLUTIONS**

#### **DESCRIPTION**

**ClearSol CIP Prebatch 20+** is a formulated, very low foaming surfactant and hard water control additive which is readily soluble in 50% caustic soda solutions without the need for prolonged mixing or heating. This new, innovative technology exhibits the following attributes when formulated into a caustic-based cleaner:

- Extremely low surface tensions of 18 dynes/cm or lower depending on formulation.
- Provides the lowest known surface tension properties from a commercially available surfactant system to 50% caustic soda solutions and their use dilutions.
- Controls hard water even in high-temperature cleaning applications.
- Extremely low foam properties making this product suitable for many industrial cleaning processes.
- Can reduce either the NaOH consumption or the cleaning cycle time by as much as 50%.
- Light color with minimal odor.
- Applications include food, brewery, ethanol, draft beer lines, dairy, poultry, egg, car & truck, strong caustic or acidic cleaners. Also includes paint and coating strippers, oil field, and pulp & paper applications.

CLEAR SOLUTIONS USA  
47 North Ski Court, Gilbert, AZ 85233  
Phone: 480-631-0996

## FORMULATION TIPS

For best results ClearSol CIP PreBatch 20+ should be added at **10% by weight** into **90% by weight** caustic soda (sodium hydroxide) to formulate the concentrated caustic cleaner. This cleaner would then be diluted as needed, i.e. to 3% active sodium hydroxide, for actual cleaning solutions.

## SPECIFICATIONS

Appearance	Clear, light amber liquid
Odor	Bland odor
Specific Gravity	1.30
pH (as is)	2.0 – 3.0

## PERFORMANCE PROPERTIES

Surface Tension, 0.3% ClearSol CIP PreBatch 20+ in 3% NaOH	18 dynes/cm
Ross Miles Foam Tests, 0.1% ClearSol CIP PreBatch 20+ in 1% NaOH	3 mm foam (0 mm in < 5 seconds)

## STANDARD PACKAGING

ClearSol CIP PreBatch 20+ is available in 55-gallon drums, and 275-gallon totes.

## SHELF LIFE

ClearSol CIP PreBatch 20+ has a shelf life of 2 years.