



# CLEAR SOL CHLOR HF

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## Technical Data Sheet

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### **HIGH FOAM SURFACTANT SYSTEM FOR SODIUM HYPOCHLORITE & STRONG OXIDIZING SOLUTIONS**

#### **DESCRIPTION**

**ClearSol CHLOR HF** is a high foaming surfactant system which is readily soluble in 12% active sodium hypochlorite (bleach) solutions as well as other oxidizers including hydrogen peroxide. This brand new, patented technology exhibits the following attributes when formulated at a 2000 ppm use level into final working solutions:

- Extremely low surface tensions of 17-19 dynes/cm or lower depending on formulation. Provides the lowest known surface tension properties from a commercially available surfactant system to sodium hypochlorite and other strong oxidizing solutions.
- Quick dynamic surface tension lowering resulting in fast wetting and spreading on various hydrophobic substrates.
- High foam properties making this product suitable for many industrial cleaning processes where high foaming properties are desirable.
- Also soluble in highly alkaline and acidic solutions.
- Does NOT contain any California Proposition 65 listed chemicals.
- Can reduce either the NaOCl consumption or the cleaning cycle time by as much as 50%.
- Light color with minimal odor.
- Applications include high foaming cleaners for car & truck, highly alkaline or acidic cleaners.

## FORMULATION TIPS

For best results ClearSol CHLOR HF should be formulated at a use level of **2000 ppm** (or 0.20% by weight) use level in the cleaner's final working solution. For example, if a 5% Sodium Hypochlorite-Based Foaming Cleaner Concentrate is designed to be diluted to a 1% active sodium hypochlorite level (which would indicate a 20% dilution in water) then 1% ClearSol CHLOR HF would need to be added to the Sodium Hypochlorite-Based Cleaner Concentrate in order to have a 2000 ppm (Or 0.20% by weight) level of ClearSol CHLOR HF in the final 20% by weight use dilution with water.

## SPECIFICATIONS

Appearance	Clear, light amber liquid
Odor	Bland odor
Solids (Actives) %	40 - 41
Specific Gravity	0.9657
pH (as is)	8.0

## PERFORMANCE PROPERTIES

Surface Tension, 1% ClearSol CHLOR HF, 6% active NaOCl	19.22dynes/cm
Ross Miles Foam Tests, 0.1% ClearSol CHLOR HF in 1% NaOCl	168 mm foam

## STANDARD PACKAGING

ClearSol CHLOR HF is available in 55-gallon drums and bulk packaging.

## SHELF LIFE

ClearSol CHLOR HF has a shelf life of 2 years.