

SODIUM GLUCOHEPTONATE

BOTTLE WASH

The high efficiency of sugar acids as sequestrants-dispersants for multivalent metal ions is due to the relatively high ionization of the hydrogen of the hydroxyl groups in sugar acids. This ionization could be accomplished by any alkali such as KOH, NaOH, NH₄OH, Na₂CO₃, etc. However, NaOH is the alkali of choice because it is inexpensive, it provides both cleaning and detergent actions and is very stable with sodium glucoheptonate solutions.

In general, bottle and glassware cleaning formulations are designed to eliminate bottle haze and scale build-up which is usually caused by the magnesium and calcium constituents of hard water. It is also desirable that the cleaning formulations remove rust, provide good rinsing and, above all, reduce maintenance costs.

Sodium glucoheptonate is an excellent sequestrant and rinse aid when used with approximately 3% caustic or with other builders such as phosphates in bottle and glassware operations. The sequestrant is frequently used at 2 to 5% of the dry caustic soda concentration depending upon the hardness of the water employed.

