

Training Manual	
Subject: Chemical Training – First Quarter, Chemical Mixing and Concentration	Number: 5.036

When mixing chemicals with water, always add the chemical to the water, not water to the chemical. This reduces the risk of splash back and the creation of fumes. Never mix chemicals with other chemicals.

Mix chlorinated sanitizers with cool water. Warm water will cause the chlorine to evaporate leaving only warm water.

Chemical	Type	Dilutions	Water Temperature
Enrich	Chlorinated caustic	2-3oz/gal. water	Warm
Chelated Caustic	Caustic	3-5 drops; 0.3-0.5oz/gal. water	Warm
San-I-King	Chlorine Sanitizer	100-200ppm; 1-2oz/5 gal. water	Cool
Red Acid	Acid	0.4-0.6oz/gal. water	Warm
Cling	Acid	10-30 drops; 1-3oz/gal. water	Warm
Hydroxysan Plus	Acid Sanitizer	6-38 drops; 77-500 ppm/6 gal. water	Cool
Immense	Neutral Cleaner	1-2oz/gal. water	Warm
Grid-10	Quaternary Cleaner Sanitizer	200-400ppm; 1oz/4 gal. water	Warm
Geron Foamy II	Quaternary Cleaner Sanitizer	800-1200ppm; 1.5-2.5oz / 2.5gal. water	Warm

Chemicals that should not be mixed:

Enrich and San-I-King should not be mixed with Cling, Red Acid, or Hydroxysan Plus. The mixture of these chemicals will create a toxic chlorine gas.

Enrich and San-I-King should not be mixed with Grid 10 or Geron Foamy II. The mixture of these chemicals will create a toxic chloramine gas.

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