Pool Chemical Formulas

Hendricks County Health Department
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Public Health
Prevent. Promote. Protect.
Hendricks County Health Department

Pool Type: _____(ie spa, pool, wading, etc.)
Gallons: _____Pool Occupancy: _____

Increase Chlorine

Calcium Hypochlorite	.125 x ppm change x pool volume ÷ 10,000 = pounds
Sodium Hypochlorite	.1016 x ppm change x pool volume ÷ 10,000 = gallons
Sodium Hypochlorite 12%	.0836 x ppm change x pool volume ÷ 10, 000 = gallons
Lithium Hypochlorite	.250 x ppm change x pool volume ÷ 10,000 = pounds

Decrease Chlorine

Sodium Sulfite	.2 x ppm change x pool volume ÷ 10,000 = pounds
Sodium Thiosulfate (dechlor)	.1625 x ppm change x pool volume ÷ 10,000 = pounds

Increase pH/ Total Alkalinity

Sodium Carbonate (Soda Ash)	.186 x ppm change x pool volume ÷ 10,000 = pounds
Caustic Soda	.094 x ppm change x pool volume ÷ 10,000 = pounds

Decrease pH/ Total Alkalinity

Muriatic Acid/Hydrochloric Acid	.5 x ppm change x pool volume ÷ 10,000 = gallons
Sodium Bisulfate	.05 x ppm change x pool volume ÷ 10,000 = pounds

Increase Total Alkalinity

Sodium Bicarbonate (Baking Soda)	.15 x ppm change x pool volume ÷ 10,000 = pounds

Decrease Total Alkalinity

Muriatic Acid/Hydrochloric Acid	.016 x ppm change x pool volume ÷ 10,000 = gallons
Sodium Bisulfate	.16 x ppm change x pool volume ÷ 10,000 = pounds

Decrease Stabilizer

Drain and fill with fresh water

Basic conversion *dry and liquid conversions are not interchangeable*

1 lb (pound)= 16 Ounces (Dry) 1 gal (gallon, liquid)= 128 Fluid Ounces