



DILUTION RATIOS

When preparing your detergent/water mix always begin by filling your container half to $\frac{3}{4}$ full with water to prevent foaming. Add your required detergent amount to reach the proper dilution ratio (use our useful dilution tables below for reference). Be sure to mix thoroughly prior to use. Finish by topping off with the necessary amount of water.

QUART (32 ounces)			1 Gallon (128 ounces)		
To make 1 quart of detergent/water mix			To make 1 gallon of detergent/water mix		
Dilution Ratio	Soap	Water	Dilution Ratio	Soap	Water
1:4	6.5 oz	25.5 oz	1:4	25.5 oz	102.5 oz
1:10	3 oz	29 oz	1:10	11.5 oz	116.50 oz
1:12	2.5 oz	29.5 oz	1:12	10 oz	118 oz
1:15	2 oz	30 oz	1:15	8 oz	120 oz
1:20	1.5 oz	30.5 oz	1:20	6 oz	122 oz
1:32	1 oz	31	1:32	4 oz	124 oz
1:40	.8 oz	31.2 oz	1:40	3 oz	125 oz
1:50	.6 oz	31.4 oz	1:50	2.5 oz	125.5 oz
1:64	.5 oz	31.5 oz	1:64	2 oz	126 oz
1:128	.25 oz	31.75 oz	1:128	1 oz	127 oz
1:256	.125 oz	31.875 oz	1:256	.5 oz	127.5 oz

Handy Reference Chart

1 GALLON = 128 OUNCES
1 QUART = 32 OUNCES
1 PINT = 16 OUNCES
1 CUP = 8 OUNCES
2 CUPS = 1 PINT
2 PINTS = 1 QUART
4 QUARTS = 1 GALLON

DILUTION RATIOS FOR PAILS AND BARRELS

5 Gallon Pail (640 ounces)			55 Gallon Barrel		
To make a 5-gallon pail of detergent/water mix			To make a 55-gallon barrel of detergent/water mix		
Dilution Ratio	Soap	Water	Dilution Ratio	Soap	Water
1:4	1 g	4 g	1:4	11 g	44 g
1:10	59	4 g 69 oz	1:10	5 g	51 g
1:12	50	4 g 78 oz	1:12	4.25 g	50.75 g
1:15	40	4 g 88 oz	1:15	3 g 44 oz	51g 84 oz
1:20	31	4 g 97 oz	1:20	2 g 79 oz	52 g 49 oz
1:32	20	4 g 108 oz	1:32	1 g 85 oz	53 g 43 oz
1:40	16	4 g 112 oz	1:40	1 g 44 oz	53 g 84 oz
1:50	13	4 g 115 oz	1:50	1g 13 oz	53 g 115 oz
1:64	10	4 g 118 oz	1:64	108 oz	54 g 20 oz
1:128	5	4 g 123 oz	1:128	55 oz	54 g 75 oz
1:256	3	4 g 125 oz	1:256	28 oz	54 g 100 oz

If you come across other dilution tables or charts keep in mind that the lower number is your solution, the bigger number is the water.

Easy way to calculate ounces you need for ratios:

Say you're mixing a 5 gallon pail (5 gallons X 128 ounces/gallon = 640 ounces)

The ratio you want is a 1:75 (add these 2 numbers=76)

Divide your total liquid of your container (in this case 640 ounces in the pail)

$640/76 = 8.42$ ounces of soap into your pail of water !

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