

Need at least 10% lemon eucalyptus?

Repel uses 30% lemon eucalyptus?

can change total volume and units volume in each column--unit volume will be either 2.5 or 6 ml

29.5625

after mixing--adjust w apple cider vinegar or bicarb to bring pH to ~ 6.5

given			1 multiplier				0.5 multiplier		2 multiplier		4 multiplier		
calc		units	2				1 units		4 units		8 units		
UNIT VOLUME		given	2.0				same as 1 multiplier		same as 1 multiplier		same as 1 multiplier		
conv^		ml	60				same as 1 multiplier		same as 1 multiplier		same as 1 multiplier		
Serving Size		given	10.0				same as 1 multiplier		same as 1 multiplier		same as 1 multiplier		
Servings/Unit		calc	6				same as 1 multiplier		same as 1 multiplier		same as 1 multiplier		
FINAL TOTAL VOLUME		given	4 oz				2 oz		8 oz		16 oz		
TO CAL CONC		conv^	120				60 ml		240 ml		480 ml		
		conv^	0.03				0.02 gal		0.06 gal		0.13 gal		
FINAL pH													
H2O2 35%		ml	0.00				0.00 ml		0.00 ml		0.00 ml		
+ water		calc	0.00				0.00 oz		0.00 ml		0.00 ml		
		conv^	0.00				0.00 oz		0.00 oz		0.00 oz		
OR H2O2 3%		3%	0.00	0.0000%	0	0 ml		0 ml		0 oz			
TOTAL W DILUTANT		calc	4 oz				2 oz		8 oz		16 oz		
		calc	118.25				2 oz		8 ml		16 ml		
+ H2O dilutant		calc	2.37673				1.1884 oz		4.75 oz		9.5069 oz		
		conv^	ml				0 ml		0 ml		0 ml		
TOTAL (USE IF CONCENT		given	1.62327				0.8116 oz		3.25 oz		6.4931 oz		
		calc	0.00				oil		concentration				
CONCENTRATE H2O*		conv	0				0.00 oz		0.00 oz		0.00 oz		
		ml	0				0 ml		0 ml		0 ml		
LIQUID CONCENTRATE		oz	1.62327				800.00		mL				
INCLUDING OILS		ml	48	drp/100ml	ppm	48.00	24 ml	0.8116 oz	96 ml	3.2 oz	192 ml	6.4 oz	
Apple Cider Vinegar	100%	ml	0.5	0.4167%	4,167	0.50	1.04%	0.25 ml	0.0125 ml	1 ml	0 oz	2 ml	0.067 oz
Glycerine	100%	ml	2.5	2.0833%	20,833	2.50	5.21%	1.25 ml		5 ml	0.2 oz	10 ml	0.333 oz
Honey							0.00						
Iodine*	2%	ml	0.5	0.0083%	83	0.50	1.04%						
Isopropyl Alcohol	50%	ml	2	0.8333%	8,333	2.00	4.17%	1 ml	0.0333 ml	4 ml	0.1 oz	8 ml	0.267 oz
Ethanol	95%	ml	1	0.7917%	7,917	1.00	2.08%	0.5 ml	0.0167 ml	2 ml	0.1 oz	4 ml	0.133 oz
Witch Hazel, 17% Etoh	83%	ml	2	1.3833%	13,833	2.00	4.17%	1 ml	0.0333 ml	4 ml	0.1 oz	8 ml	0.267 oz
Vanilla Extract	100%	ml											
Castor Oil	100%	ml	3	2.5000%	25,000	3.00	6.25%	1.5 ml	0.075 ml	6 ml	0.2 oz	12 ml	0.4 oz
Coconut Oil	100%	ml	3	2.5000%	25,000	3.00	6.25%	1.5 ml	0.075 ml	6 ml	0.2 oz	12 ml	0.4 oz
Neem Oil	100%	ml	3	2.5000%	25,000	3.00	6.25%	1.5 ml	0.075 ml	6 ml	0.2 oz	12 ml	0.4 oz
Olive Oil	100%	ml	3	2.5000%	25,000	3.00	6.25%	1.5 ml		6 ml	0.2	12 ml	0.4
Sesame Oil Raw Organic	100%	ml											
Oils TOTAL		conv	27.5	drp/100ml		27.50	57.29%	13.75 ml		55 ml	1.8 oz	110 ml	3.667 oz
		calc	550	458.33333	229,167			275 drop		1100 drop		2200 drop	
Camphor	100%	drop											
Cedar Atlas	100%	drop	8	0.3333%	3,333	0.40	0.83%	4 drop	0.2 ml	16 drop	0.8 ml	32 drop	1.6 ml
Cinnamon	100%	drop	8	0.3333%	3,333	0.40	0.83%	4 drop	0.2 ml	16 drop	0.8 ml	32 drop	1.6 ml
Citronella	100%	drop	10	0.4167%	4,167	0.50	1.04%	5 drop	0.25 ml	20 drop	1 ml	40 drop	2 ml
Clove	100%	drop	8	0.3333%	3,333	0.40	0.83%	4 drop	0.2 ml	16 drop	0.8 ml	32 drop	1.6 ml
Clary Sage	100%	drop											
Eucalyptus, Regular													
Eucalyptus, Lemon	100%	drop	480	20.0000%	200,000	24.00	50.00%	240 drop	12 ml	960 drop	48 ml	1920 drop	96 ml
Frankencense	100%	drop											
Geranium	100%	drop	8	0.3333%	3,333	0.40	0.83%	4 drop	0.2 ml	16 drop	0.8 ml	32 drop	1.6 ml
Lavendar	100%	drop	4	0.1667%	1,667	0.20	0.42%	2 drop	0.1 ml	8 drop	0.4 ml	16 drop	0.8 ml
Lemon	100%	drop											
Lemongrass	100%	drop											
Orange	100%	drop											
Oregano	100%	drop											
Peppermint	100%	drop	8	0.3333%	3,333	0.40	0.83%	4	0.2 ml	16 drop	0.8 ml	32 drop	1.6 ml
Pine	100%	drop	4	0.1667%	1,667	0.20	0.42%	2	0.1 ml	8 drop	0.4 ml	16 drop	0.8 ml
Rosemary	100%	drop	4	0.1667%	1,667	0.20	0.42%						
Sage	100%	drop											
Spearmint	100%	drop											
Tea Tree	100%	drop	4	0.1667%	1,667	0.20	0.42%	2	0.1 ml	8 drop	0.4 ml	16 drop	0.8 ml
Thyme	100%	drop	4	0.1667%	1,667	0.20	0.42%	2	0.1 ml	8 drop	0.4 ml	16 drop	0.8 ml
Wintergreen	100%	drop											
Ylang Ylang													

NOTES: Boric Acid, 1.74% = 6 mg B/mL (max 4.7% at 20C/68F); Borax 2.65%= 3 mg/mL (max 4.7% at 20C/68F)

1/4 cup in 1 gallon = 2 oz in 128 oz = 1.55%; 1/2 cup in 4 cups water is 4 oz in 32 or 12.5% (only at > 105F)

*Iodine 12-25 ppm is antiseptic, 100-500 is cidal

Directions

1 Trial without dilution for effect

2 Trial with dilution, 1 oz to 3 oz water

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