

Applying Safari 20 SG by Soil Drench – Master Batch

IMPORTANT	CONVERSION FACTOR
Use the specially marked measuring cup that comes with your purchase of Safari to measure the required amount of product and a regular measuring cup to measure the amount of water. Note that the numbers printed on the special measuring cup refer to <i>ounces of weight</i> of Safari 20 SG and are <i>not</i> the same as <i>fluid ounces of volume</i> in a regular measuring cup.	If you don't have the special measuring cup, you can use a regular measuring cup with the following conversion factor for Safari 20 SG: 8 fl. oz. by volume in a regular measuring cup = 4 oz. by weight in the Safari measuring cup.

Step 1. To make a **master batch of treatment mixture**, put the required amount of water in a mixing container first. **Warm water** works best. Then add the corresponding amount of product shown in the Mixing chart below and shake well until all treatment material is dissolved.

MIXING THE MASTER BATCH	
Amount of Product	Amount of Water
3.5 ounces	32 fluid ounces (1 qt)
7 ounces	64 fluid ounces (2 qts)
10.5 ounces	96 fluid ounces (3 qts)
12 ounces	110 fluid ounces
14 ounces	128 fluid ounces (1 gal)

Step 2. Measure the trunk diameter of the tree at breast height. This is called “inches dbh.”

Step 3. Rake back any leaf litter, needle duff or debris from the base of the tree so that bare soil is accessible. At a distance of **no more than 12 inches from the base of the tree**, use a piece of rebar to make one hole in the soil for each inch of trunk diameter. The holes should be evenly spaced around the tree and **no deeper than 2-4 inches**. Placing the treatment mixture very close to the trunk, up against the big roots, and in the sinuses between the roots helps speed absorption.

Note: For trees that are smaller than 4 inches in diameter, make a minimum of 4 shallow holes around the tree.

Step 4. Treatment is done on an **individual tree** basis. Use the Dosing table below to determine how many ounces of treatment mixture the tree needs by multiplying its trunk diameter by the number of ounces shown in the right-hand column.

DOSING EACH TREE	
Inches (DBH)	Oz of TREATMENT MIXTURE PER INCH DBH
1 - 15	1 ounce
16 – 19	1.33 ounces
20 – 23	1.67 ounces
24 – 27	2 ounces
28 – 31	2.33 ounces
32 – 35	2.67 ounces
36 – 39	3 ounces
40 or greater	3.33 ounces

Step 5. Use a regular measuring cup to measure out exactly the required amount of treatment mixture for the tree and put it into a larger pouring container. Then **add more water** to the pouring container to make it easier to distribute the material evenly around the tree, as follows:

For trees up to 12” in diameter, add one gallon of water.

Add one more pint of water for every inch of diameter over 12.

Step 6. Pour the treatment mixture into the holes and all around the base of the tree slowly to avoid runoff and be sure to use it all up on the intended tree. When you're finished treating each tree, mark it to indicate it's been treated. Give the treatment time to dry before children or pets are allowed in the area.

CALL THE HEMLOCK HELP LINE 706-429-8010 WITH ANY QUESTIONS.



Applying Safari 20 SG by Soil Drench – Small Custom Batch

IMPORTANT	CONVERSION FACTOR
Use the special marked measuring cup that comes with your purchase of Safari to measure the required amount of product and a regular measuring cup to measure the amount of water. Note that the numbers printed on the special measuring cup refer to <i>ounces of weight</i> of Safari 20 SG and are <i>not</i> the same as <i>fluid ounces of volume</i> in a regular measuring cup.	If you don't have the special measuring cup, you can use a regular measuring cup with the following conversion factor for Safari 20 SG: 8 fl. oz. by volume in a regular measuring cup = 4 oz. by weight in the Safari measuring cup.

Step 1. Measure the trunk diameter of the tree at breast height. This is called “inches dbh.”

Step 2. To make a **small custom batch of treatment mixture**, put the required amount of water in a mixing container first. Refer to the chart below. **Warm water** works best.

Step 3. Then add the corresponding amount of product shown in the chart below and shake until all treatment material is dissolved.

MIXING & DOSING		
Inches (DBH)	Amount of Product PER INCH	Amount of Water PER INCH
1 – 15	0.1 oz = 3 grams	2 fluid ounces
16 – 19	0.133 oz = 4 grams	2 fluid ounces
20 – 23	0.167 oz = 5 grams	2 fluid ounces
24 - 27	0.2 oz = 6 grams	2 fluid ounces
28 – 31	0.233 oz = 7 grams	2 fluid ounces
32 – 35	0.267 oz = 8 grams	2 fluid ounces
36 – 39	0.3 oz = 9 grams	2 fluid ounces
40 or greater	0.33 oz = 10 grams	2 fluid ounces

Step 5. Use a regular measuring cup to measure out exactly the required amount of treatment mixture for the tree and put it into a larger pouring container. Then **add more water** to the pouring container to make it easier to distribute the material evenly around the tree, as follows:

For trees up to 12” in diameter, add one gallon of water.

Add one more pint of water for every inch of diameter over 12.

Step 6. Pour the treatment mixture into the holes and all around the base of the tree slowly to avoid runoff and be sure to use it all up on the intended tree. When you're finished treating each tree, mark it to indicate it's been treated. Give the treatment time to dry before children or pets are allowed in the area.

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Safari 20 SG Extended Mixing & Dosage Chart for soil Drench or Trunk Spray

Master Batch: 96 oz Mixture

96 oz water plus 10.5 oz. product

DBH"	Treatment Mixture (oz) per inch dbh	TOTAL Treatment Mixture (oz)
1	1.0	1
2	1.0	2
3	1.0	3
4	1.0	4
5	1.0	5
6	1.0	6
7	1.0	7
8	1.0	8
9	1.0	9
10	1.0	10
11	1.0	11
12	1.0	12
13	1.0	13
14	1.0	14
15	1.0	15
16	1.33	21.28
17	1.33	22.61
18	1.33	23.94
19	1.33	25.27
20	1.67	33.4
21	1.67	35.07
22	1.67	36.74
23	1.67	38.41
24	2.0	48
25	2.0	50
26	2.0	52
27	2.0	54
28	2.33	65.24
29	2.33	67.57
30	2.33	69.9
31	2.33	72.23
32	2.67	85.44
33	2.67	88.11
34	2.67	90.78
35	2.67	93.45
36	3.0	108
37	3.0	111
38	3.0	114
39	3.0	117
40	3.33	133.2
41	3.33	136.53
42	3.33	139.86
43	3.33	143.19
44	3.33	146.52
45	3.33	149.85
46	3.33	153.18
47	3.33	156.51
48	3.33	159.84

Custom Batch:

2 oz water per inch dbh" plus (oz product per inch dbh times dbh)

DBH"	Water (oz) per inch dbh	Product (oz by weight) per inch dbh	TOTAL Product (oz by weight)	TOTAL Treatment Mixture (oz)
1	2	0.1	0.1	2
2	2	0.1	0.2	4
3	2	0.1	0.3	6
4	2	0.1	0.4	8
5	2	0.1	0.5	10
6	2	0.1	0.6	12
7	2	0.1	0.7	14
8	2	0.1	0.8	16
9	2	0.1	0.9	18
10	2	0.1	1	20
11	2	0.1	1.1	22
12	2	0.1	1.2	24
13	2	0.1	1.3	26
14	2	0.1	1.4	28
15	2	0.1	1.5	30
16	2	0.133	2.128	32
17	2	0.133	2.261	34
18	2	0.133	2.394	36
19	2	0.133	2.527	38
20	2	0.167	3.34	40
21	2	0.167	3.507	42
22	2	0.167	3.674	44
23	2	0.167	3.841	46
24	2	0.2	4.8	48
25	2	0.2	5	50
26	2	0.2	5.2	52
27	2	0.2	5.4	54
28	2	0.233	6.524	56
29	2	0.233	6.757	58
30	2	0.233	6.99	60
31	2	0.233	7.223	62
32	2	0.267	8.544	64
33	2	0.267	8.811	66
34	2	0.267	9.078	68
35	2	0.267	9.345	70
36	2	0.3	10.8	72
37	2	0.3	11.1	74
38	2	0.3	11.4	76
39	2	0.3	11.7	78
40	2	0.33	13.2	80
41	2	0.33	13.53	82
42	2	0.33	13.86	84
43	2	0.33	14.19	86
44	2	0.33	14.52	88
45	2	0.33	14.85	90
46	2	0.33	15.18	92
47	2	0.33	15.51	94
48	2	0.33	15.84	96

After pouring prescribed amount of mixture into the sprayer for a specific tree, add more water to reduce foaming if necessary.