

# Applying Safari 20 SG by Trunk Spray – Master Batch

|  |   |
|--|---|
| <b>IMPORTANT</b>   | <b>CONVERSION FACTOR</b>  |
| Use the <b>special</b> 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:<br><br>8 fl. oz. by volume in a regular measuring cup<br>= 4 oz. by weight in the Safari measuring cup. |

Wear long sleeved shirt, long pants, shoes and socks, goggles, gloves, and mask while spraying.

**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.** 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. Use a regular measuring cup to measure out exactly the required amount of treatment mixture for the tree and pour it into the sprayer.

| 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 4.** Set the sprayer for low pressure (10-15 psi) and adjust the nozzle for a spray about 3-4 inches wide (not a stream and not a mist). Position the nozzle 2 inches from the trunk and spray from 5 ½ feet above the ground to 6 inches above the ground. Do this very slowly to avoid back-splash and allow the treatment material to be absorbed into the bark; try not to let it drip down onto the ground if the tree is immediately next to a waterway or other sensitive area. Spray until the sprayer is empty so you use all of the treatment mixture on the intended tree.

NOTE: If the spray is too foamy, you can add a cup or two of water in the sprayer tank after you've loaded the required amount of treatment mixture into it.

**Step 5.** 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 Trunk Spray – Small Custom Batch

|   |   |
|---|---|
| <b>IMPORTANT</b>  | <b>CONVERSION FACTOR</b>  |
| Use the <b>special</b> <b>marked measuring cup</b> 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:<br><br>8 fl. oz. by volume in a regular measuring cup<br>= 4 oz. by weight in the Safari measuring cup. |

Wear long sleeved shirt, long pants, shoes and socks, goggles, gloves, and mask while spraying.

**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.

| <b>MIXING &amp; DOSING</b> |                            |                          |
|----------------------------|----------------------------|--------------------------|
| 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 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. Use a regular measuring cup to measure out exactly the required amount of treatment mixture for the tree and pour it into the sprayer.

**Step 4.** Set the sprayer for low pressure (10-15 psi) and adjust the nozzle for a spray about 3-4 inches wide (not a stream and not a mist). Position the nozzle 2 inches from the trunk and spray from 5 ½ feet above the ground to 6 inches above the ground. Do this very slowly to avoid back-splash and allow the treatment material to be absorbed into the bark; try not to let it drip down onto the ground if the tree is immediately next to a waterway or other sensitive area. Spray until the sprayer is empty so you use all of the treatment mixture on the intended tree.

NOTE: If the spray is too foamy, you can add a cup or two of water in the sprayer tank after you've loaded the required amount of treatment mixture into it.

**Step 5.** 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.**

## 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.