

THCP QUICK REFERENCE CHART FOR CHEMICALS USED TO TREAT HEMLOCK WOOLLY ADELGID

NOTE: Read and follow the label instructions when using any pesticide materials

IMIDACLOPRID

MIXING

Amount of Imidacloprid Product	Amount of Water for High End Concentration
75% WSP (1.6 oz.)	Use 1.6 oz. bag and fill to 34 oz of mix with water
2L or 2F Liquid Formulation	Use 18 fl. oz. of 2F or 2L and fill to 128 oz of mix with water
Coretect	N/A

IMIDACLOPRID

APPLICATION: Methods & Rates

DBH	Soil Drench Method (Number of Fluid Ounces)	Soil Injection Method (Number of Pumps Below)		Coretect (Number of Tablets)
		Kioritz Injector (1/6 oz per pump)	1-Two Root Injector (1/4 oz per pump)	
4	1.5	8	5	3
5	2	11	8	4
6	2.5	15	10	5
7	3.5	20	13	7
8	4	24	16	8
9	5	29	19	10
10	6	34	23	11
11	7	40	26	13
12	8	45	30	15
13	9	51	34	17
14	10	57	38	19
15	11	63	42	21
16	12	69	46	23
17	13	76	51	25
18	14	82	55	27
19	15	89	59	30
20	16	96	64	32
21	18	103	69	34
22	19	110	73	37
23	20	117	78	39
24	21	125	83	42
25	22	132	88	44
26	24	140	93	47
27	25	147	98	49
28	26	155	103	52
29	28	163	109	54
30	29	171	114	57
31	30	179	119	60
32	32	187	125	62
33	33	195	130	65
34	34	204	136	68
35	36	212	141	71
Maximum per acre	181	1086	724	362

Do not exceed a total of 0.4 lb. of active ingredient per acre per year.


*All Imidacloprid recommendations based on "Benton, E. P., & Cowles, R. S. Optimized Insecticide Dosage for Hemlock Woolly Adelgid Control in Hemlock Trees."

SAFARI 20 SG-DINOTEFURAN

MIXING

Amount of Safari Product	Amount of Water for High End Concentration for Soil Drench and Soil Injection	Amount of Water for Low End Concentration Soil Drench and Soil Injection	Amount of Water for High End Concentration Bark Spray	Amount of Water for Bark Spray Low End Concentration
Safari 20 SG 12oz or 3lbs	6 oz. product with 48 oz. water	3.5 oz. product with 48 oz. water	24 oz. product with one gallon water	12 oz. product with one gallon water

APPLICATION-Methods & Rates

DBH	SOIL INJECTION METHOD	SOIL DRENCH METHOD	BARK SPRAY METHOD	FOLIAGE SPRAY METHOD
	Dosage (Kioritz soil injector)	Ounces per inch of DBH	Ounces per inch of DBH	
1" through 23"	6 pumps per 1 inch diameter (1 fl oz. solution)	1 fl oz. per 1 inch in DBH	1.5 fl oz. per inch of diameter	4 to 8 oz. per 100 gallons
24" +	*12 pumps per 1 inch diameter (1 fl oz. solution)	*2 fl oz. per 1 inch DBH	2.0 fl oz. per inch of diameter	4 to 8 oz. per 100 gallons
	Dosage (Nu-ARBOR 1 Two Root injector tank)			
1" through 23"	4 pumps per 1 inch diameter (1 fl oz. solution)			
24" +	*8 pumps per 1 inch diameter (1 fl oz. solution)			
Comments	1 hole per inch DBH evenly spaced around tree; 2-4" deep, with no less than 4 holes per tree	*Remember to double dose trees greater than 24 in. DBH	Do not apply to wet bark, during rainfall or if rain is expected within 12 hours	

Do not exceed a total of 0.54 lb. of active ingredient per acre per year.

Contact TN Division of Forestry (615) 837-5552 for information on Stem Injection & Biological Controls for HWA