SPRAY FORMULATIONS

Products for Smaller Rose Gardens (25 or fewer plants)					
Problem / Solution	<u>Toxicity</u>	<u>Amour</u>	it/Gal	Notes	MOA
Blackspot and Powdery Mildew					
BioAdvanced Disease Control for Roses	Caution	1 1/2 Tabl	espoons	Systemic action for 7 to 14 days	1
Daconil Fungicide Concentrate 29.6%	Warning	2 teasp	oons	Control of blackspot. May burn foliage in hot weather.	6
Fertilome Liquid Systemic	Warning	2 Tables	poons	Effective for 10 days (same as Banner Maxx)	1
Fertilome Landscape & Garden Fungicide	Warning	6 teasp	oons	Helps eradicate outbreak of blackspot (same as Daconil)	6
Immunox	Warning	2 Tables	poons	Multipurpose, Use every 10-14 days	1
Maneb (wettable powder)	Caution	1 1/2 Tabl	espoons	Helps eradicate blackspot, tends to leave a residue on foliage	6
Bonide Mancozeb Flowable with Zinc	Caution	1 3/4 Tabl	•	Controls/Eradicates blackspot and cercospora leaf spot	6
Ortho Garden Disease Control	Warning	2 teasp	-	Helps eradicate outbreak of blackspot (formerly labeled as Daconil)	6
Ortho Rose & Shrub Disease Control	Danger	1 Table		Use weekly for control (formerly labeled as Funginex)	1
Manzate	Caution	1 Table	•	Can be used at 3 day interval to eliminate blackspot	6
Bonide Infuse	Warning	2 Tables	•	Effective for 10 to 14 days (same as Banner Maxx)	1
Bonide Mancozeb Flowable	Caution	1 Table	-	Helps eradicate outbreak of blackspot (same as Pentathlon)	6
Dithane M45 (wettable powder)	Caution	1 1/2 Tabl	•	Helps prevent and eradicate blackspot with little residue on foliage	6
Organicide Plant Doctor	Caution	1/2 to 1 1/8	•	Plant host defense inducer primarily effective for downy mildew	6
OHP 6672 50% WP	Caution	1 teas		Wettable powder generic Cleary's 3336F with same properties	2
Honor Guard PPZ	Warning	1/3 teas		Generic Banner Maxx with systemic action for 14-21 days	1
	Wannig	1/0 1041	poon		
Insects (Use only when necessary)					
BioAdvanced Complete Insect Killer	Caution	1 Table	spoon	Broad spectrum with long life (Merit + Talstar)	2&4
BioAdvanced Rose & Flower Insect Killer Conc	Caution	aution 1 Tablespoon		Broad spectrum with long life (Merit + Tempo)	2&4
Conserve SC	Caution	Caution 1/2 teaspoon		Spinosad, excellent for thrips, locally systemic	4
Bonide Captain Jack's Deadbug Conc	Caution	ution 4 Tablespoons		Spinosad, good for thrip	4
Garden Safe Rose & Flower Insect Killer	Caution	•		Broad spectrum for aphids, Japanese Beetles and mites	2
Orthene (9.4% EC)	Caution	,		(Liquid) Use as needed to eliminate thrips, aphids, etc.	1
Orthene (97% WSP)	Caution	1/2 to 1 te		(Powder) Use as needed to eliminate thrips, aphids, etc.	1
Ortho Max Lawn & Garden Insect Killer	Caution	3 Tables	-	Contact insecticide with some mite control. (Same as Talstar)	2
Ortho Malathion Plus	Warning	2 to 3 tea		Works well for aphids	1
	e e				
Spectracide Garden Insect Killer Conc	Caution	4 Tables		Also available in RTU (Ready to Use)	2
Sevin (over the counter)	Caution	4 teasp 1/8 teas		Broad spectrum product that will kill Japanese Beetles Generic form of Merit for aphids, whiteflies & Japanese Beetles	1
Zenith 75 WSP	Caution	1/0 (eas	рооп	Generic form of Ment for aprilos, writtenies & Japanese Beetles	4
Spider Mites					
Lucid (liquid)	Warning	1/4 teas	poon	Translaminar, kills adult mites only , use 1/2 tea/gal for severe case	3
Minx 2 (liquid)	Caution	1/4 teas	poon	Translaminar, kills adult mites only , use 1/2 tea/gal for severe case	3
TetraSan (wettable powder)	Caution	1/2 teas	poon	Translaminar that kills eggs and nymphs, combine with Avid	5
Forbid 4F	Caution	1/4 teas	poon	Miticide with translaminar activity for all life stages	6
Combination Sprays for Insects and Diseases					
BioAdvanced All in One Rose & Flower Care	Caution	4 TBSP/p	nt/plant	Pour pint around plant monthly. Also contains 9-14-9 fertilizer.	1
BioAdvanced 2 in 1 Systemic Rose & Flower Care	Warning	Sprinkle 2	•	Granular 8-12-4 fertilizer with systemic insect control	1
BioAdvanced 3-in-1	Caution	5 1/4 Tabl		Insect, disease and mite control all in one.	1,2&4
Bonide Rose Shield	Caution	3 Our		Systemic insect and disease prevention for 7-14 days	1,2&4
Bonide Rx 3 in 1	Caution	1 Oui		Organic Neem Oil fungicide, insecticide, and miticide spray	6
Bonide Rx Systemic Drench	Caution	2 oz/qua		Mix and pour fungicide and insecticide for up to 6 weeks	1&4
-	Caution		-	Extract of Neem oil. Use as preventative for insects & disease.	6
Fertilome Rose, Flower & Veg Spray		2 Tables	-	•	
Immunox Plus Insect & Disease Control	Caution	4 Tables		All in one insect and disease control	1&2
Orthenex Insect & Disease Control	Danger	2 Tables	-	All in one. Use only as needed.	1
Organicide 3 -n 1 Garden Spray	Caution	3 Oun		Extract of Sesame oil (5%) with fish oil (95%)	6
Garden Safe Fungicide 3	Caution	2 Tables	poons	Organic all in one insect & disease control for 7-14 days.	6
<u>Spray Adjuvants</u>					
Beaty WSP Surfactant	Warning	1/8 teas	poon	Penetrant/wetter/spreader for systemic and translaminar pesticides	3
Weights and Measures				Toxicity Signal	
Equivalents	Definitions			Category Word	
3 tsp = 1 TBSP 2 TBSP = 1 Fluid Oz.	TBSP = Tablesp tsp = teaspoon	noon		I - Highly Toxic (1) DANGER II - Moderately Toxic WARNING	
4 TBSP = 12 tsp = $1/4$ Cup = 2 fluid oz.	Gal = Gallon			III - Slightly Toxic CAUTION	
1 Cup = 16 TBSP = 8 Fluid Oz.				IV - Relatively non-toxic CAUTION	
32 TBSP = 2 Cups = 1 Pint				Note (1) - Pesticides in this category with signal word DANGER (skull & crossbones)	
64 TBSP = 4 Cups = 2 Pints = 1 Quart		1		POISON in red are acutely toxic in oral, dermal and inhalation exposures. If signal word is	1

Please Note: Before using any chemical always READ THE LABEL, wear protective clothing, and think safety. * MOA (Mode of Activity) for detailed explanation see associated article at www.chattanoogarose.org

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1 oz = 3 TBSP dry weight (approximately)

DANGER by itself, it means that toxicity rating is based on eye and skin irritation.