



Phytotoxicity Studies on Ornamentals

SuffOil-X[®]

Phytotoxicity observed after spray application of SuffOil-X on ornamentals, including various bedding, foliage and ornamental plants.

Common Name	Botanical Name	Plant Variety	Rate ¹ %	Phyto-toxicity	Flower Phyto-toxicity
Ageratum	<i>Ageratum houstonianum</i>		1,2,4	N	N
Allamanda	<i>Allamanda cathartica</i>		1	N	
Anthurium	<i>Anthurium</i>	'Lady Jane'	1	N	
Aralia	<i>Polyscias</i>	Parsley	1	N	
Azalea	<i>Rhododendron</i>		1	N	
Azalea	<i>Rhododendron sp.</i>	'Arthur Sweet Pink', 'Autumn Carnival Red', 'G.G. Gerbing'	2	N	N
Banana	<i>Musa</i>		1	N	
Begonia	<i>Begonia x hybrida</i>		1,2,4	N	N
Begonia, Wax leaf	<i>Begonia semperflorens</i>		1,2,4	N	Y
Bird of Paradise	<i>Strelitzia</i>		1	N	
Bougainvillea	<i>Bougainvillea</i>		1	N	
Boxwood	<i>Buxus microphylla</i>	'Wintergreen'	2	N	N
Butterfly Bush	<i>Buddleia davidii</i>	'Petit Lavender', 'White'	2	N	N
Buttonwood	<i>Conocarpus erectus</i>	green	1	Y	
Buttonwood	<i>Conocarpus erectus</i>	silver	1	Y	
Calathea	<i>Calathea roseopicta</i>		1	N	
Calibrachoa (mini petunia)	<i>Calibrachoa hybrid</i>	Mixed color	1,2,4	N	Y
Cape Honeysuckle	<i>Tecomaria capensis</i>		1	N	
Chinese Fan Palm	<i>Livistona chinensis</i>		1	N	
Colocasia, Elephant's Ear	<i>Colocasia esculenta</i>	'Black Magic'	1,2,4	N	N
Cordyline	<i>Cordyline terminalis</i>	Cordyline	1	N	
Cordyline	<i>Cordyline terminalis</i>	'Global'	1	Y	
Cordyline	<i>Cordyline terminalis</i>	'Kiwi'	1	N	
Cordyline	<i>Cordyline terminalis</i>	'Red Sister'	1	N	



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Coreopsis	<i>Coreopsis verticillata</i>	'Moonbeam'	1,2,4	N	N
Crape myrtle	<i>Lagerstroemia indica</i>	'Velma Royal'	2	N	N
Croton	<i>Codiaeum variegatum</i>		1	N	
Croton	<i>Codiaeum variegatum</i>	'Petra'	1	N	
Crown of Thorns	<i>Euphorbia milii</i>	splendens	1	N	
Cuphea, Mexican Heather	<i>Cuphea hyssopifolia</i>	'Allyson'	1	N	
Cycad	<i>Zamia</i>		1	N	
Cycad, Cardboard	<i>Zamia furfuracea</i>		1	N	
Dahlia	<i>Dahlia</i>		2	N	
Dianthus	<i>Dianthus gratianopolitanus</i>	'Firewitch'	1,2,4	N	N
Dianthus, Pinks	<i>Dianthus</i>	pinks	2	N	
Dieffenbachia, Dumbcane	<i>Dieffenbachia</i>	'Bali Hai'	1	N	
Dieffenbachia, Dumbcane	<i>Dieffenbachia maculata</i>	'Camille'	1	N	
Dracaena	<i>Dracaena marginata</i>	'Colorama'	1	N	
Dracaena	<i>Dracaena reflexa</i>	'Song of India', 'Pleomele'	1	N	
Dusty Miller	<i>Jacobaea maritima</i> (<i>Senecio</i>)		2	N	
Evergreen Candytuft	<i>Iberis sempervirens</i>	'Purity white'	1,2,4	N	N
Ficus, Fiddle Leaf Fig	<i>Ficus lyrata</i>		1	N	
Ficus, Rubber Plant	<i>Ficus elastica</i>	'Robusta'	1	N	
Ficus, Weeping Fig	<i>Ficus benjamina</i>	'Wintergreen'	1,2	N	
Gardenia	<i>Gardenia</i>		1	N	
Gardenia	<i>Gardenia jasminoides</i>	'August Beauty'	2	N	N
Geranium	<i>Pelargonium</i>	'Deep Pink'	1,2,4	N	N
Gerbera Daisy	<i>Gerbera</i>		1	N	
Gerbera Daisy	<i>Gerbera jamesonii</i>		1,2,4	N	N
Ginger	<i>Zingiber</i>	Variegated	1	N	
Grass, Hardy Pampas	<i>Erianthus ravennae</i>		1,2,4	Y	
Hibiscus	<i>Hibiscus</i>		1,2	N	
Hibiscus	<i>Hibiscus rosa-sinensis</i>	'Diana', 'Purple Minerva'	2	N	N



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Holly	<i>Ilex crenata</i>	'Stead', 'China Girl', 'Compacta'	2	N	N
Hydrangea	<i>Hydrangea sp.</i>	'Endless Summer Blue', 'Forever and Ever Blue', 'Heaven', 'Red'	2	N	N
Impatiens	<i>Impatiens</i>		1	Y	
Impatiens	<i>Impatiens walleriana</i>	Mixed	1,2,4	N	N
Impatiens, New Guinea	<i>Impatiens x hybrida</i>		1,2,4	N	
Indian Hawthorn	<i>Rhaphiolepis indica</i>		1	N	
Ivy, English	<i>Hedera helix</i>		1	N	
Ivy, Grape	<i>Cissus rhombifolia</i>		1	N	
Ixora	<i>Ixora sp.</i>	'Maui', 'Nora Grant', 'Singapore', 'Petit', 'Red Taiwan Dwarf'	1	N	
Jasmine, Florida	<i>Jasminum floridum</i>		2	N	N
Jasmine, Wax	<i>Jasminum pubescens</i>		1	N	
Jatropha	<i>Jatropha</i>		1	N	
Lantana	<i>Lantana camara</i>	yellow, purple, red	1	N	
Lantana	<i>Lantana sp.</i>		2	N	N
Liriope, Lily turf	<i>Liriope muscari</i>	'Evergreen Giant'	1	N	
Loropetalum	<i>Loropetalum chinense</i>		2	N	N
Majesty Palm	<i>Ravenea rivularis</i>		1	N	
Mandevilla	<i>Mandevilla splendens</i>		1	N	
Marigold	<i>Tagetes</i>		2	N	
Marigold, African	<i>Tagetes erecta</i>		1,2,4	N	N
Mondo Grass	<i>Ophiopogon japonicus</i>		2	N	N
Oleander	<i>Nerium oleander</i>		1	N	
Oleander	<i>Nerium oleander</i>	dwarf	1	N	
Orchid	<i>Phalaenopsis</i>		2	N	N
Orchid Cactus	<i>Disocactus macranthus</i>		1	N	

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Pansy	<i>Viola x wittrockiana</i>		1,2,4	N	N
Pentas	<i>Pentas</i>		1	N	
Philodendron	<i>Philodendron selloum</i>		1	N	
Pittosporum, Japanese	<i>Pittosporum tobira</i>	'Compacta', green, variegated, 'Wheeler's Dwarf'	1	N	
Podocarpus	<i>Podocarpus</i>		1	N	
Poinsettia	<i>Euphorbia pulcherrima</i>		2	N	
Pothos	<i>Epipremnum aureum</i>	'Jade', 'Marble Queen'	1	N	
Privet, Japanese	<i>Ligustrum recurvifolia</i>		1	N	
Privet, Chinese	<i>Ligustrum sinensis</i>		1	N	
Pygmy Date Palm	<i>Phoenix roebelenii</i>		1	N	
Queen Palm	<i>Syagrus romanzoffiana</i>		1	N	
Rose, Knock Out	<i>Rosa sp.</i>	'Red Double', 'Pink Double'	2	N	N
Royal Palm	<i>Roystonea</i>		1	N	
Salvia	<i>Salvia nemorosa</i>	'May Night'	1,2,4	N	
Salvia	<i>Salvia</i>	red	1,2,4	N	N
Scaevola, Fan flower	<i>Scaevola</i>		1	N	
Schefflera, Dwarf Umbrella Tree	<i>Schefflera arboricola</i>	'Covette', 'Golden Capella', variegated	1	N	
Seagrape	<i>Coccoloba uvifera</i>		1	N	
Sedum	<i>Sedum spectabile</i>	'Neon'	1,2,4	Y	
Snapdragon	<i>Antirrhinum</i>		1	N	
Spathiphyllum, Peace Lily	<i>Spathiphyllum</i>	'Lynise', 'Viscount'	1	N	
St. John's Wort	<i>Hypericum calycinum</i>		1,2,4	N	N
Surinam Cherry	<i>Eugenia uniflora</i>		1	N	
Swedish Ivy	<i>Plectranthus verticillatus</i>		1	N	
Tomato	<i>Solanum lycopersicum</i>	'Cherokee Purple'	1,2,4	N	



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Torenia, Wishbone Flower	<i>Torenia fournieri</i>		1,2,4	N	N
Verbena	<i>Verbena</i>		1	N	
Viburnum	<i>Viburnum sp.</i>		1	N	
Viburnum	<i>Viburnum dentatum</i>	'Burgundy Morton'	2	N	N
Viburnum, Sandankwa	<i>Viburnum suspensum</i>		1	N	
Vinca	<i>Vinca</i>		1	N	
Vinca	<i>Catharanthus roseus</i>	Mixed color	1,2,4	N	N
Vinca	<i>Catharanthus roseus</i>	'Cora'	1,2,4	N	Y
Wax Myrtle	<i>Myrica</i>		1	N	
Weigela	<i>Weigela florida</i>	'Wine and Roses'	2	N	N
Zinnia	<i>Zinnia angustifolia</i>		1,2,4	N	N

¹ Rate is % v/v (volume to volume) with water

NOTE: Use caution when making SuffOil-X applications to open blooms, especially on varieties known to be sensitive. It is recommended that a small group of plants be tested for effects on open blooms before making applications to the whole crop.

Refer to product labels for complete application details. Additional technical information is available on our website (bioworksinc.com) or from your BioWorks technical sales representative. Always read and follow label directions.

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