



[Environment Horticulture Program Research Summaries](#)

IR-4 Environmental Horticulture Program Prodiamine Crop Safety

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Date: October 12, 2020**

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This material is based upon work that is supported by the National Institute of Food and Agriculture, U.S. Department of Agriculture, under award numbers 2015-34383-23710, 2017-34383-27100, and 2019-34383-29973 with substantial cooperation and support from the State Agricultural Experiment Stations and USDA-ARS.

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Abstract

Prodiamine has been registered in the United States for many years for uses in and around ornamental plants in production nurseries and in landscapes. There have been several label amendments expanding the list of ornamental plants where prodiamine formulations can be used. Since 1977, the IR-4 Project has conducted over 568 trials using granular, wettable powder, wettable dry granular and emulsifiable concentrate formulations.

The marketplace contains multiple brands of prodiamine with similar formulations. This report is written to support amending any prodiamine label, so prodiamine will be used throughout instead of trade names with the exception of the specific products and formulations tested as referred to in Tables 4 and 5.

One hundred thirty-two plant species or genera exhibited no or minimal, transitory phytotoxicity to applications of WDG, WP and EC formulations. Of these, 64 species or genera are not currently on prodiamine WDG labels. It is recommended that 36 of these be placed on these labels along with moving 12 species from the portion of the label excluding use in CA to the portion of the label including use in CA. With additional data demonstrating no or minimal transient phytotoxicity, it is recommended the remaining 25 species also be added.

Twenty three species or genera exhibited no phytotoxicity at a 1X rate of the WDG, WP or EC formulations, but at higher rates there was some damage. Since some of the data was generated with EC and wettable powder formulations along with wettable dry granular formulations, it is recommended additional research be conducted on these species.

Only 8 species (*Ajuga sp.*, *Carex pennsylvanica*, *Ilex x meserveae*, *Limonium sp.*, *Petunia x hybrida*, *Sedum spurium*, *Viola tricolor*, and *Zinnia sp.*) demonstrated significant phytotoxicity even at a low label rate.

Sixty plant species or genera exhibited no or minimal transitory phytotoxicity to applications of prodiamine G formulations. Of these 11 are not currently listed on prodiamine G labels. It is recommended that these be placed on the labels.

Only 2 crops (*Cortaderia* and *Leucanthemum maximum*) exhibited significant damage after prodiamine G applications.

Introduction

Prodiamine has been registered in the United States for many years for uses in and around ornamental plants in production nurseries and in landscapes. There have been several label amendments expanding the list of ornamental plants where prodiamine formulations can be used. Since 1977, the IR-4 Project has conducted over 568 trials using granular, wettable powder, and wettable dry granular formulations. This is the first summary across all the available data generated through IR-4. While prodiamine labels are fairly broad with many listed crops, this document will lead to amendments placing new crops on these labels.

The marketplace contains multiple brands of prodiamine with similar formulations. This report is written to support amending any prodiamine label, so prodiamine will be used throughout instead of trade names with the exception of the specific products and formulations tested as referred to in Tables 4 and 5.

Materials and Methods

Because this research was conducted over a wide time frame, application rates and whether repeat applications were made varied. Rates ranged from 0.375 to 16 lb ai per acre and number of applications varied from 1 to 5. Since 2006, the following protocols were used: 06-015, 07-012. Prodiamine was also included as a standard in additional crop safety experiments in 2013, 2014 and 2017. For more detailed materials and methods and available protocols from previous years' research activities, please go to <https://www.ir4project.org/ehc/ehc-registration-support-research/env-hort-researcher-resources/#Protocols> to view and download these protocols.

Prodiamine G, E, WP and WDG was supplied to researchers (See list of researchers in Appendix 2) by several companies including Borax USA, Sandoz Agro, and Syngenta.

Results and Summary

Based on the type and nature of injury seen with prodiamine applications, tested plant species were placed into three categories: 1) no significant phytotoxicity or growth differences from the untreated check or any injury was transitory, 2) no or minimal transitory injury seen at the 1X rate, but the 2X and/or 4X rates did cause significant phytotoxicity, 3) Significant injury sufficient to recommend growers not utilize these prodiamine formulations.

Phytotoxicity of Prodiamine WDG, WP and E Formulations

In general, prodiamine WDG, WP or E formulations exhibited no or minimal negative impact on a wide range of plant species (Table 1). One hundred thirty-two plant genera or species fell into this category. Some minimal injury may be acceptable for growers if applications are made several weeks to months in advance of crop sale particularly for woody ornamental crops. For 23 crop species, there was no or little injury exhibited at the 1.5 lb ai per acre rate, but significant phytotoxicity occurred at the 3.0 lb ai per acre or higher rates (Table 2). Of this set, for 4 species single applications appeared to not cause harm, but damage was seen after the second application.

Since 1978 only 8 crops exhibited sufficient damage to not recommend prodiamine WDG/WP/E use either as over the top or soil broadcast applications: *Ajuga sp.*, *Carex pennsylvanica*, *Ilex x meserveae*, *Limonium sp.*, *Petunia x hybrida*, *Sedum spurium*, *Viola tricolor*, and *Zinnia sp.* (Table 3).

Please see Table 6 for a list of research on the wettable dry granular, wettable powder and liquid formulations of prodiamine and a summary of the individual trial results.

Phytotoxicity of Prodiamine G Formulations

In general, prodiamine G formulations exhibited no or minimal negative impact on a wide range of plant species (Table 4). Sixty plant genera or species fell into this category. Some minimal injury may be acceptable for growers if applications are made several weeks to months in advance of crop sale particularly for woody ornamental crops.

Since 1978 only 2 crops exhibited sufficient damage to not recommend prodiamine use either as over the top or soil broadcast applications: *Cortaderia sp.* and *Leucanthemum maximum* (Table 5).

Please see Table 7 for a list of research on the granular formulations of prodiamine and a summary of the individual trial results.

Table 1. List of prodiamine 2E, 50WP and 65WG treated crops with no or minimal transitory injury.

<i>Acer saccharum</i>	<i>Dryopteris erythrosora</i>	<i>Phoenix roebelinii</i>
<i>Acer sp.</i>	<i>Erigeron karvinskianus</i>	<i>Photinia sp.</i>
<i>Achillea millefolium</i>	<i>Eryngium planum</i>	<i>Picea sp.</i>
<i>Agapanthus africanus</i>	<i>Euonymus japonica</i>	<i>Pieris compacta</i>
<i>Agastache rupestris</i>	<i>Euonymus fortunei</i>	<i>Pinus strobus</i>
<i>Ageratum houstonianum</i>	<i>Euonymus macrophylla</i>	<i>Pinus sylvestris</i>
<i>Amsonia hubrichtii</i>	<i>Forsythia sp.</i>	<i>Pinus thunbergii</i>
<i>Antirrhinum majus</i>	<i>Geum sp.</i>	<i>Pittosporum tobira</i>
<i>Aquilegia sp.</i>	<i>Goniolimon tataricum</i>	<i>Podocarpus macrophylla</i>
<i>Arctotheca calendula</i>	<i>Gypsophila elegans</i>	<i>Polystichum polyblepharum</i>
<i>Aristida stricta</i>	<i>Hedera helix</i>	<i>Pseudotsuga menziesii</i>
<i>Artemisia lactiflora</i>	<i>Hemerocallis sp. (See Fraelich)</i>	<i>Pyracantha coccinea</i>
<i>Asclepias sp.</i>	<i>Hibiscus rosa-sinensis</i>	<i>Pyracantha fortuneana</i>
<i>Asparagus virgatus</i>	<i>Hosta fortunei</i>	<i>Quercus rubra</i>
<i>Aspidistra elatior</i>	<i>Hosta undulate</i>	<i>Quercus borealis</i>
<i>Athyrium filix-femina</i>	<i>Ilex crenata (See Glaze)</i>	<i>Rhamnus smithii</i>
<i>Athyrium nipponicum</i>	<i>Jasminium nudiflorum</i>	<i>Rhododendron formosa</i>
<i>Aubrieta deltoidea</i>	<i>Juniperus chinensis</i>	<i>Rhododendron obtusum</i>
<i>Aurinia saxatilis</i>	<i>Juniperus horizontalis</i>	<i>Rhododendron catawbiense</i>
<i>Begonia sp.</i>	<i>Juniperus conferta</i>	<i>Rhododendron chionoides</i>
<i>Berberis thunbergii</i>	<i>Justicia brandegeana</i>	<i>Rumohra adiantiformis</i>
<i>Berberis julianae</i>	<i>Lantana sp.</i>	<i>Ruscus hypophyllum</i>
<i>Berberis verruculosa</i>	<i>Leucanthemum maximum</i>	<i>Salvia daghestanica</i>
<i>Berberis mentorensis</i>	<i>Liatris sp.</i>	<i>Salvia x sylvestris</i>
<i>Brassica oleracea</i>	<i>Ligustrum sp.</i>	<i>Scutellaria racemosa</i>
<i>Buddleia alternifolia</i>	<i>Lilium sp.</i>	<i>Sedum spectabile</i>
<i>Buddleia davidii</i>	<i>Liriope muscari</i>	<i>Spirea japonica</i>
<i>Centaurea gymnocarpa</i>	<i>Liriope spicata</i>	<i>Syzygium pauculatum</i>
<i>Ceratium tomentosum</i>	<i>Liriope sp.</i>	<i>Tagetes erecta</i>
<i>Chrysalidocarpus lutescens</i>	<i>Lobelia erinus (See Kraus)</i>	<i>Tagetes patula</i>
<i>Colchicum sp.</i>	<i>Lonicera japonica</i>	<i>Tagetes sp.</i>
<i>Cornus alernifolia</i>	<i>Magnolia grandiflora</i>	<i>Taxus x media</i>
<i>Cornus stolonifera</i>	<i>Magnolia x soulangiana</i>	<i>Taxus cuspidata</i>
<i>Cornus florida</i>	<i>Malus sp.</i>	<i>Thuja occidentalis</i>
<i>Cotoneaster glaucophylla</i>	<i>Malus sieboldii</i>	<i>Thymus serpyllum</i>
<i>Cotoneaster dammeri</i>	<i>Matteuccia struthiopteris</i>	<i>Trachelospermum jasminoides</i>
<i>Cotoneaster microphylla</i>	<i>Nandina domestica</i>	<i>Trifolium repens</i>
<i>Cupressus sempervirens</i>	<i>Narcissus sp.</i>	<i>Tsuga canadensis</i>
<i>Cyrtomium fortunei</i>	<i>Oenothera fruticosa</i>	<i>Veronica repens</i>
<i>Cytisus purgans</i>	<i>Oenothera pallida</i>	<i>Viburnum plicatum</i>
<i>Delosperma sp.</i>	<i>Onoclea sensibilis</i>	<i>Viburnum lantana</i>
<i>Dendranthemum sp.</i>	<i>Origanum libanoticum</i>	<i>Viburnum wrightii</i>
<i>Diascia intergerrima</i>	<i>Osmunda cinnamomea</i>	<i>Viola x wittrockiana</i>
<i>Digitalis sp.</i>	<i>Osmunda regalis</i>	<i>Washingtonia robusta</i>
<i>Dodoneae cuneata</i>	<i>Pelargonium x hortorum</i>	<i>Yucca filamentosa</i>
<i>Dryopteris x australis</i>	<i>Perovskia atriplicifolia</i>	<i>Zauschneria californica</i>

Table 2. List of prodiamine 2E, 50WP and 65WG treated crops with no or minimal transitory injury seen at the 1X rate, but the 2X or 4X rate did cause significant phytotoxicity

<i>Astilbe sp.</i>	<i>Cotoneaster salicifolius</i>	<i>Lantana montevidensis</i>
<i>Aucuba sp.</i>	<i>repandens</i>	<i>Lysimachia punctata</i>
<i>Buxus sp. *</i>	<i>Cuphea hyssopifolia</i>	<i>Mentha x piperita</i>
<i>Callistephus chinensis</i>	<i>Delphinium sp.</i>	<i>Osmunda cinnamomea</i>
<i>Cleyera japonica *</i>	<i>Dicentra sp.</i>	<i>Physostegia virginiana</i>
<i>Cortaderia *</i>	<i>Euonymus kiautschovicus</i>	<i>Rosa chinensis minima</i>
<i>Cosmos sp.</i>	<i>Gardenia *</i>	<i>Sequoia sempervirens</i>
<i>Cotoneaster apiculata</i>	<i>Helichrysum bracteatum</i>	<i>Silene caroliniana</i>
	<i>Impatiens wallerana</i>	

* Single application might not have caused injury, but second application did at a number of sites.

Table 3. List of prodiamine 2E, 50WP and 65WG treated crops exhibiting significant injury.

<i>Ajuga sp.</i>	<i>Limonium sp.</i>	<i>Viola tricolor</i>
<i>Carex pennsylvanica</i>	<i>Petunia x hybrida</i>	<i>Zinnia sp.</i>
<i>Ilex x meserveae</i>	<i>Sedum spurium</i>	

Table 4. List of prodiamine G treated crops with no or minimal transitory injury.

<i>Acer sp.</i>	<i>Gardenia sp.</i>	<i>Pinus sp.</i>
<i>Adiantum sp.</i>	<i>Hedera helix L. ssp. Helix</i>	<i>Pittosporum</i>
<i>Ajuga reptans</i>	<i>Ilex sp.</i>	<i>Podocarpus macrophyllus</i>
<i>Athyrium filix-femina</i>	<i>Juniperus sp.</i>	<i>Polystichum acrostichoides</i>
<i>Athyrium nipponicum</i>	<i>Lagerstroemia indica</i>	<i>Polystichum polyblepharum</i>
<i>Aucuba sp.</i>	<i>Ligustrum sp.</i>	<i>Pyracantha sp.</i>
<i>Begonia sp.</i>	<i>Liriope sp.</i>	<i>Quercus sp.</i>
<i>Buxus sp.</i>	<i>Lonicera sp.</i>	<i>Rhododendron sp.</i>
<i>Calluna sp.</i>	<i>Malus sp.</i>	<i>Rosa sp.</i>
<i>Cleyera japonica</i>	<i>Matteuccia struthiopteris</i>	<i>Salvia splendens</i>
<i>Cornus florida</i>	<i>Nandina domestica</i>	<i>Sedum sp.</i>
<i>Cornus sp.</i>	<i>Onoclea sensibilis</i>	<i>Tagetes sp.</i>
<i>Cotoneaster sp.</i>	<i>Osmunda cinnamomea</i>	<i>Taxus sp.</i>
<i>Cyrtomium fortune</i>	<i>Osmunda regalis</i>	<i>Thuja sp.</i>
<i>Dryopteris x australis</i>	<i>Oxydendrum arboreum</i>	<i>Tsuga sp.</i>
<i>Dryopteris erythrosora</i>	<i>Pachysandra terminalis</i>	<i>Viburnum sp.</i>
<i>Dryopteris marginalis</i>	<i>Pelargonium x hortorum</i>	<i>Vinca sp.</i>
<i>Elaeagnus angustifolia</i>	<i>Pelargonium sp.</i>	<i>Weigela sp.</i>
<i>Euonymus sp.</i>	<i>Photinia sp.</i>	
<i>Fatsia sp.</i>	<i>Picea sp.</i>	
<i>Forsythia sp.</i>	<i>Pieris japonica</i>	

Table 5. List of prodiamine G treated crops exhibiting significant injury.

Cortaderia sp.

Leucantheumum maximum

Table 6. Detailed Summary of Crop Safety Testing with Liquid, Wettable Granular and Wettable Powder Formulations of Prodiamine

Notes: Table entries are sorted by crop Latin name. Only prodiamine reports received by 8/26/2020 are included in this table.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
11631	Barricade 65WG (Prodiamine)	Andromeda, Fetterbush (<i>Pieris sp.</i>) <i>P. compacta</i>	Field Container	Senesac	NY	1994	Foliar	Slight injury observed which may not be treatment related.
12957	Barricade 65WG (Prodiamine)	Arrowwood (<i>Viburnum sp.</i>) <i>V. lantana</i>	Field Container	Senesac	NY	1997	Over the top	No significant injury.
25627	Barricade 65WG (Prodiamine)	Asian Netvein Hollyfern (<i>Cyrtomium fortunei</i>)	Field Container	Derr	VA	2006	Broadcast	No stand or growth reduction at all rates
09512	Barricade 65WG (Prodiamine)	Autumn Crocus, Colchicum (<i>Colchicum sp.</i>)	Field Container	Buriff	OH	1996	Broadcast	No injury.
11441	Barricade 65WG (Prodiamine)	Avens (<i>Geum sp.</i>)	Field In-Ground	Elmore	CA	1993	Broadcast	No significant injury; common chickweed control was good
11443	Barricade 65WG (Prodiamine)	Baby's Breath (<i>Gypsophila elegans</i>) <i>G. paniculata</i>	Field In-Ground	Elmore	CA	1994	Broadcast	No significant injury; poor control of shephards purse and rough pigweed.
09270	Barricade 65WG (Prodiamine)	Barberry (<i>Berberis sp.</i>) <i>B. thunbergii</i> 'Atropurpurea'	Field Container	Buriff	OH	1996	Broadcast	No significant injury.
23000	Barricade 65WG (Prodiamine)	Basket-Of-Gold (<i>Aurinia saxatilis</i>) 'Gold Dust'	Field Container	Senesac	NY	2002	Over the top	No significant phytotoxicity.
12950	Barricade 65WG (Prodiamine)	Bayberry, Northern (<i>Myrica pensylvanica</i>)	Field Container	Hart	NJ	2003	Over the top	No injury or growth reduction at 0.65, 1.3 and 2.6 lb ai per acre.
09727	Barricade 65WG (Prodiamine)	Bridal-Wreath (<i>Spiraea sp.</i>) <i>S. japonica</i> 'Little Princess'	Field Container	Buriff	OH	1996	Broadcast	No injury.
20148	Barricade 65WG (Prodiamine)	Buckthorn (<i>Rhamnus sp.</i>) <i>R. smithii</i>	Field Container	Klett	CO	2000	Over the top	No significant injury; significant weed control
20148	Barricade 65WG (Prodiamine)	Buckthorn (<i>Rhamnus sp.</i>) <i>R. smithii</i>	Field Container	Klett	CO	2001	Over the top	No significant phytotoxicity; significant weed control at the 1.3 lb rate
09723	Barricade 65WG (Prodiamine)	Bugleweed (<i>Ajuga sp.</i>) <i>A. reptans</i>	Field In-Ground	Derr	VA	1995	Over the top	Moderate injury increasing with rate (2.0, 4.0, 8.0 lb ai per acre); excellent control of large crabgrass, carpetweed and yellow woodsorrel.
11881	Barricade 65WG (Prodiamine)	Butchers Broom; Israeli Ruscus (<i>Ruscus aculeatus</i>) <i>R. hypophyllum</i>	Greenhouse	Stamps	FL	1992	Foliar	No injury; good to excellent weed control.
11663	Barricade 65WG (Prodiamine)	Butterfly Bush (<i>Buddleia davidii</i>)	Field Container	Buriff	OH	1997	Broadcast	No significant injury.
11663	Barricade 65WG (Prodiamine)	Butterfly Bush (<i>Buddleia davidii</i>) 'Nanho Blue'	Field Container	Beste (ARS)	MD	1996	Broadcast	No significant visible injury, but flowering was suppressed somewhat.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
11663	Barricade 65WG (Proflaminate)	Butterfly Bush (<i>Buddleia davidii</i>) 'White Bouquet'	Field Container	Norcini	FL	1995	Over the top	No significant injury; some control of chamberbitter
20149	Barricade 65WG (Proflaminate)	Butterfly Bush, Silver (<i>Buddleia alternifolia</i>) 'Argentea'	Field Container	Klett	CO	2000	Over the top	No significant injury; significant weed control
20149	Barricade 65WG (Proflaminate)	Butterfly Bush, Silver (<i>Buddleia alternifolia</i>) 'Argentea'	Field Container	Klett	CO	2001	Over the top	No injury; significant weed control.
12411	Barricade 65WG (Proflaminate)	Cardinal Flower (<i>Lobelia cardinalis</i>) L. erinus	Field Container	Krause	OH	1997	Broadcast	After the first application to plants prior to bloom, there was no visible injury, but initial number of blooms on plants decreased with increasing rate; 8 WAT there were no differences in flower number among treatments and the second application cause no
11281	Barricade 65WG (Proflaminate)	Cast-Iron Plant, Ker-Gawl (<i>Aspidistra elatior</i>)	Field In-Ground	Stamps	FL	1992	Foliar	No significant injury; good to excellent weed control
11281	Barricade 65WG (Proflaminate)	Cast-Iron Plant, Ker-Gawl (<i>Aspidistra elatior</i>)	Field In-Ground	Stamps	FL	1993		No significant injury; good to excellent weed control
11281	Barricade 65WG (Proflaminate)	Cast-Iron Plant, Ker-Gawl (<i>Aspidistra elatior</i>)	Field In-Ground	Stamps	FL	1994		No significant injury; good to excellent weed control
13119	Barricade 65WG (Proflaminate)	China Aster (<i>Callistephus chinensis</i>) 'Matsumoto Blue'	Field In-Ground	Senesac	NY	1997	Broadcast	Some early season injury; excellent control of common purslane and annual grasses.
06599	Barricade 65WG (Proflaminate)	Chokeberry (<i>Photinia</i> sp.) P. x fraseri	Field Container	Gilliam	AL	1994	Broadcast	No significant injury; excellent control of prostrate spurge
11634	Barricade 65WG (Proflaminate)	Chrysanthemum, Garden (<i>Chrysanthemum/Dendranthema</i> sp.) C./D. x morifolium	Field Container	Derr	VA	2013	Over the top	No injury or flower rating reduction with 1 lb ai per acre applied twice.
11634	Barricade 65WG (Proflaminate)	Chrysanthemum, Garden (<i>Chrysanthemum/Dendranthema</i> sp.) D. x grandiflorum 'Jennifer'	Field Container	Senesac	NY	1998	Broadcast	No significant injury.
11634	Barricade 65WG (Proflaminate)	Chrysanthemum, Garden (<i>Chrysanthemum/Dendranthema</i> sp.) D. x grandiflorum 'Linda'	Field Container	Senesac	NY	1998	Broadcast	No significant injury.
11634	Barricade 65WG (Proflaminate)	Chrysanthemum, Garden (<i>Chrysanthemum/Dendranthema</i> sp.) D. x grandiflorum 'Lisa'	Field Container	Senesac	NY	1998	Broadcast	No significant injury.
11634	Barricade 65WG (Proflaminate)	Chrysanthemum, Garden (<i>Chrysanthemum/Dendranthema</i> sp.) 'Debonair'	Field Container	Buriff	OH	1996	Broadcast	No significant injury; no weeds present at time of application
23011	Barricade 65WG (Proflaminate)	Clover, White (<i>Trifolium repens</i>) 'Atropurpureum'	Field Container	Senesac	NY	2002	Over the top	No significant phytotoxicity.
20159	Barricade 65WG (Proflaminate)	Columbine (<i>Aquilegia</i> sp.) 'Dragonfly'	Field Container	Ahrens	CT	1998	Broadcast	Very slight injury.
13121	Barricade 65WG (Proflaminate)	Cosmos (<i>Cosmos</i> sp.) C. binnateus 'Qis Rose'	Field In-Ground	Senesac	NY	1997	Over the top	Slight injury was observed; excellent weed control

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
07371	Barricade 65WG (Proflumicarb)	Cotoneaster (Cotoneaster sp.) C. salicifolius repandens	Field Container	Senesac	NY	1996	Over the top	No injury at 1.5 lb ai per acre, moderate injury at 3.0 and 6.0 lb ai per acre.
13168	Barricade 65WG (Proflumicarb)	Daffodil (Narcissus sp.)	Field Container	Buriff	OH	1997	Over the top	No injury.
31881	Barricade 65WG (Proflumicarb)	Delosperma (Delosperma sp.) D. cooperi	Field Container	Derr	VA	2013	Over the top	Virtually no injury and no flower count reduction with 1 lb ai per acre applied twice.
31881	Barricade 65WG (Proflumicarb)	Delosperma (Delosperma sp.) 'Fire Spinner'	Field Container	Derr	VA	2013	Over the top	No injury with 1 lb ai per acre applied twice.
11839	Barricade 65WG (Proflumicarb)	Dusty-Miller, Velvet Centaurea (Centaurea cineraria)	Field Container	Buriff	OH	1996	Broadcast	No significant injury; no weeds present at time of application.
11839	Barricade 65WG (Proflumicarb)	Dusty-Miller, Velvet Centaurea (Centaurea cineraria) 'Silverdust'	Field Container	Norcini	FL	1993	Foliar	No injury.
12176	Barricade 65WG (Proflumicarb)	Evening Primrose; Sundrops (Oenothera sp.) O. fruticosa	Field Container	Senesac	NY	1996	Over the top	No injury.
12176	Barricade 65WG (Proflumicarb)	Evening Primrose; Sundrops (Oenothera sp.) O. fruticosa	Field Container	Senesac	NY	1997	Over the top	Very slight injury at all rates.
12176	Barricade 65WG (Proflumicarb)	Evening Primrose; Sundrops (Oenothera sp.) O. pallida	Field Container	Senesac	NY	2002	Over the top	No visible injury, but fresh weight was significantly reduced at 2.6 lb ai per acre.
11665	Barricade 65WG (Proflumicarb)	False Heather, Elfin Herb, Mexican Heather (Cuphea hyssopifolia) 'Desert Snow'	Field Container	Norcini	FL	1995	Over the top	Slight delay of bloom; some control of chamberbitter.
25544	Barricade 65WG (Proflumicarb)	Fern, Autumn (Dryopteris erythrosora)	Field Container	Derr	VA	2006	Broadcast	No stand or growth reduction at all rates
25630	Barricade 65WG (Proflumicarb)	Fern, Christmas (Polystichum acrostichoides)	Field Container	Derr	VA	2006	Broadcast	No stand or growth reduction at all rates
25630	Barricade 65WG (Proflumicarb)	Fern, Christmas (Polystichum acrostichoides)	Field Container	Gilliam	AL	2006	Over the top	No injury or growth reduction at all rates
25546	Barricade 65WG (Proflumicarb)	Fern, Cinnamon (Osmunda cinnamomea)	Field Container	Derr	VA	2006	Broadcast	No stand or growth reduction at all rates
25546	Barricade 65WG (Proflumicarb)	Fern, Cinnamon (Osmunda cinnamomea)	Field Container	Gilliam	AL	2006	Over the top	No injury at all rates; growth reduction at 4X
08032	Barricade 65WG (Proflumicarb)	Fern, Iron; Fern, Leather-Leaf (Rumohra adiantiformis) R. adiantiformis	Greenhouse	Stamps	FL	1992	Foliar	No significant injury; excellent weed control
25625	Barricade 65WG (Proflumicarb)	Fern, Lady (Athyrium filix-femina)	Field Container	Derr	VA	2006	Broadcast	No stand or growth reduction at all rates
25626	Barricade 65WG (Proflumicarb)	Fern, Lady (Athyrium nipponicum)	Field Container	Derr	VA	2006	Broadcast	No stand or growth reduction at all rates
25545	Barricade 65WG (Proflumicarb)	Fern, Ostrich (Matteuccia struthiopteris)	Field Container	Derr	VA	2006	Broadcast	No stand or growth reduction at all rates
25629	Barricade 65WG (Proflumicarb)	Fern, Royal (Osmunda regalis)	Field Container	Derr	VA	2006	Broadcast	No stand or growth inhibition at all rates
25629	Barricade 65WG (Proflumicarb)	Fern, Royal (Osmunda regalis)	Field Container	Derr	VA	2017	Over the top	No injury or shoot fresh weight reduction with 32 fl oz per acre.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
25628	Barricade 65WG (Prodiamine)	Fern, Sensitive (<i>Onclea sensibilis</i>)	Field Container	Derr	VA	2006	Broadcast	No stand or growth reduction at all rates
11282	Barricade 65WG (Prodiamine)	Fern, Tree (<i>Asparagus virgatus</i>)	Field In-Ground	Stamps	FL	1992	Foliar	No significant injury; excellent weed control
02545	Barricade 65WG (Prodiamine)	Fir, Douglas (<i>Pseudotsuga menziesii</i>)	Field Container	Buriff	OH	1996	Broadcast	No injury.
23002	Barricade 65WG (Prodiamine)	Fleabane (<i>Erigeron</i> sp.) E. karvinskianus 'Blutenmeer'	Field Container	Senesac	NY	2002	Over the top	No injury.
12410	Barricade 65WG (Prodiamine)	Geranium (<i>Pelargonium</i> sp.) P. x hortorum	Field Container	Talbert	AR	1998	Over the top	Slight transient injury.
18720	Barricade 65WG (Prodiamine)	Giant Hyssop, Sunset (<i>Agastache rupestris</i>)	Field Container	Klett	CO	1999	Over the top	No significant injury; good weed control at both rates
18720	Barricade 65WG (Prodiamine)	Giant Hyssop, Sunset (<i>Agastache rupestris</i>)	Field Container	Klett	CO	2000	Over the top	No significant injury; good weed control
28034	Barricade 65WG (Prodiamine)	Hellebore, Black (<i>Helleborus niger</i>) H. orientalis	Field Container	Czarnota	GA	2004	Over the top	No injury at 1 lb ai per acre through 4 weeks after treatment, but minor injury appeared 8 and 12 weeks after treatment.
12938	Barricade 65WG (Prodiamine)	Holly, Blue (<i>Ilex x meserveae</i>) 'Blue Girl' and 'Blue Boy'	Field Container	Senesac	NY	1996	Over the top	Moderate to significant injury exhibited 4 weeks after treatment, however fresh weights were not impacted.
12175	Barricade 65WG (Prodiamine)	Holly, Japanese (<i>Ilex crenata</i>) 'Compacta'	Field Container	Gilliam	AL	1997		No significant injury; excellent weed control
24959	Barricade 65WG (Prodiamine)	Hopflower Oregano; Majoram (<i>Origanum libanoticum</i>)	Field Container	Klett	CO	2002	Over the top	Trial 1: No injury; good weed control.
24959	Barricade 65WG (Prodiamine)	Hopflower Oregano; Majoram (<i>Origanum libanoticum</i>)	Field Container	Klett	CO	2002	Over the top	Trial 2: No injury; good weed control.
20147	Barricade 65WG (Prodiamine)	Hummingbird Trumpet (<i>Epilobium canum</i> ssp. <i>angustifolium</i>) 'Latifolia'	Field Container	Klett	CO	1999	Over the top	No significant injury; good weed control at both rates
20147	Barricade 65WG (Prodiamine)	Hummingbird Trumpet (<i>Epilobium canum</i> ssp. <i>angustifolium</i>) 'Latifolia'	Field Container	Klett	CO	2000	Over the top	No significant injury; significant weed control
12934	Barricade 65WG (Prodiamine)	Hydrangea, Oakleaf (<i>Hydrangea quercifolia</i>)	Field Container	Hart	NJ	2003	Over the top	No injury at 0.65, slight at 1.3 and moderate at 2.6 lb ai per acre.
09712	Barricade 65WG (Prodiamine)	Impatiens; Touch-me-not (<i>Impatiens</i> sp.) I. wallerana 'Southeast Salmon Blush'	Field Container	Norcini	FL	1993	Foliar	Some injury was observed.
07823	Barricade 65WG (Prodiamine)	Jasmine (<i>Jasminum</i> sp.) J. nudiflorum	Field In-Ground	Haramaki	PA	1979	Over the top	No significant injury; reasonably good control.
11840	Barricade 65WG (Prodiamine)	Jasmine, Confederate (<i>Trachelospermum jasminoides</i>)	Field Container	Norcini	FL	1993	Foliar	Slight but transient injury at the 6.0 lb rate.
07364	Barricade 65WG (Prodiamine)	Juniper (<i>Juniperus</i> sp.) J. chinensis 'Hetzii glauca'	Field Container	Derr	VA	1995	Over the top	No injury; excellent control of yellow foxtail.

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07364	Barricade 65WG (Prodiamine)	Juniper (Juniperus sp.) J. chinensis 'Parsonii'	Field Container	Norcini	FL	1994	Over the top	No significant injury; control of florida betony was observed.
07364	Barricade 65WG (Prodiamine)	Juniper (Juniperus sp.) J. conferta 'Blue Pacific'	Field Container	Norcini	FL	1994	Over the top	No significant injury; control of florida betony was observed.
25547	Barricade 65WG (Prodiamine)	Korean Tasselfen (Polystichum polyblepharum)	Field Container	Derr	VA	2006	Broadcast	No stand or growth reduction at all rates
25547	Barricade 65WG (Prodiamine)	Korean Tasselfen (Polystichum polyblepharum)	Field Container	Gilliam	AL	2006	Over the top	No injury or growth reduction at all rates
11659	Barricade 65WG (Prodiamine)	Lantana (Lantana sp.) 'Homestead Pink'	Field Container	Gilliam	AL	1997	Ground	No significant injury; good weed control.
11659	Barricade 65WG (Prodiamine)	Lantana (Lantana sp.) L. camara 'Irene'	Field Container	Norcini	FL	1995	Over the top	Slight delay of bloom and slight cupping of leaves, but no significant visible injury; partial control of chamber bitter
13124	Barricade 65WG (Prodiamine)	Larkspur (Delphinium sp.) D. x elatum 'Pacific Hybrid Giants'	Field Container	Senesac	NY	1996	Over the top	Significant injury at 3.0 and 6.0 lb ai per acre rates.
22999	Barricade 65WG (Prodiamine)	Lilacbush (Aubrieta sp.) A. deltoidea	Field Container	Senesac	NY	2002	Over the top	No significant phytotoxicity.
09674	Barricade 65WG (Prodiamine)	Lily (Lilium sp.) lilium	Field Container	Buriff	OH	1996	Broadcast	No injury.
09715	Barricade 65WG (Prodiamine)	Lily, Plantain (Hosta fortunei) 'August Moon'	Field Container	Senesac	NY	1994	Foliar	No injury.
09715	Barricade 65WG (Prodiamine)	Lily, Plantain (Hosta fortunei) 'August Moon'	Field Container	Senesac	NY	1996	Over the top	No visible injury, but fresh weight was slightly suppressed.
09715	Barricade 65WG (Prodiamine)	Lily, Plantain (Hosta fortunei) H. undulata	Field Container	Buriff	OH	1996	Broadcast	No injury.
11347	Barricade 65WG (Prodiamine)	Lilyturf (Liriope sp.) L. spicata	Field Container	Norcini	FL	1994	Over the top	No significant injury; some reduction in cover of Florida botany.
11866	Barricade 65WG (Prodiamine)	Lilyturf, Big Blue (Liriope muscari)	Field Container	Buriff	OH	1997	Broadcast	No injury.
11866	Barricade 65WG (Prodiamine)	Lilyturf, Big Blue (Liriope muscari) 'Evergreen Giant'	Field Container	Norcini	FL	1994	Over the top	No significant injury; some control of Florida Betony.
13206	Barricade 65WG (Prodiamine)	Loosestrife, Yellow; Golden Globe (Lysimachia sp.) L. punctata	Field Container	Senesac	NY	1997	Over the top	Slight to moderate injury increasing with rate.
09721	Barricade 65WG (Prodiamine)	Magnolia (Magnolia sp.) M. grandiflora	Field Container	Gilliam	AL	1994	Broadcast	No injury.
09721	Barricade 65WG (Prodiamine)	Magnolia (Magnolia sp.) M. x soulangiana	Field Container	Buriff	OH	1996	Broadcast	No injury.
09235	Barricade 65WG (Prodiamine)	Maple (Acer sp.) A. saccharum	Field Container	Buriff	OH	1996	Broadcast	No injury.
12917	Barricade 65WG (Prodiamine)	Maple, Red (Acer rubrum) 'Red Sunset'	Field In-Ground	Kuhns	PA	2003	Over the top	No injury at 0.65, 1.5 and 3 lb ai per acre.
09710	Barricade 65WG (Prodiamine)	Marigold (Tagetes sp.)	Field Container	Buriff	OH	1996	Broadcast	No injury.

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09710	Barricade 65WG (Proflaminate)	Marigold (Tagetes sp.)	Field Container	Talbert	AR	1995	Broadcast	Slight injury observed starting 5WAT increasing with rate.
09710	Barricade 65WG (Proflaminate)	Marigold (Tagetes sp.) T. erecta 'Inca Orange'	Field Container	Gilliam	AL	1994	Broadcast	No visible injury but growth was suppressed slightly (10-15%).
09710	Barricade 65WG (Proflaminate)	Marigold (Tagetes sp.) T. erecta 'Inca Yellow'	Field Container	Norcini	FL	1993	Foliar	Slight foliar distortion 28DAT
09710	Barricade 65WG (Proflaminate)	Marigold (Tagetes sp.) T. patula	Field Container	Boydston	WA	1995	Broadcast	No injury at 7DAT for 1st and 2nd applications; excellent control of barnyard grass
11658	Barricade 65WG (Proflaminate)	Max Chrysanthemum (Leucanthemum maximum)	Field Container	Fare	TN	1996	Foliar	Slight but transient stunting and leaf distortion; by 30 DAT all plants appeared healthy.
11658	Barricade 65WG (Proflaminate)	Max Chrysanthemum (Leucanthemum maximum) 'Alaska'	Field Container	Buriff	OH	1996	Broadcast	No significant injury; no weeds present at time of application
11658	Barricade 65WG (Proflaminate)	Max Chrysanthemum (Leucanthemum maximum) 'Alaska'	Field Container	Derr	VA	2013	Over the top	Minor injury with 1 lb ai per acre applied twice.
11658	Barricade 65WG (Proflaminate)	Max Chrysanthemum (Leucanthemum maximum) 'Marconi'	Field Container	Senesac	NY	1994	Foliar	No significant injury.
11658	Barricade 65WG (Proflaminate)	Max Chrysanthemum (Leucanthemum maximum) 'Snow Lady'	Field Container	Fare	TN	1997		Slight but transient stunting or distortion; by 60DAT all plants were marketable with no visible phytotoxicity
23477	Barricade 65WG (Proflaminate)	Milkweed (Asclepias sp.) 'Ice Ballet'	Field Container	Senesac	NY	2002	Over the top	No significant phytotoxicity
09728	Barricade 65WG (Proflaminate)	Mock Orange (Philadelphus sp.) P. x virginialis 'Minnesota Snowflake'	Field Container	Buriff	OH	1996	Broadcast	No injury.
22951	Barricade 65WG (Proflaminate)	Mugwort, White (Artemisia lactiflora) 'Guizho'	Field Container	Klett	CO	2002		Trial 1: No significant phytotoxicity; good weed control
22951	Barricade 65WG (Proflaminate)	Mugwort, White (Artemisia lactiflora) 'Guizho'	Field Container	Klett	CO	2002		Trial 2: No significant phytotoxicity; good weed control
13440	Barricade 65WG (Proflaminate)	Palm, Washington Fan (Washingtonia robusta)	Field Container	Broschat	FL	1998	Foliar	No significant injury; good weed control
09191	Barricade 65WG (Proflaminate)	Periwinkle (Vinca sp.) V. minor	Field Container	Talbert	AR	1995	Broadcast	Slight injury at all rates.
09713	Barricade 65WG (Proflaminate)	Petunia (Petunia sp.)	Field Container	Talbert	AR	1995		Some injury at all rates.
09713	Barricade 65WG (Proflaminate)	Petunia (Petunia sp.) P. x hybrida 'Celebrity Red'	Field Container	Gilliam	AL	1994	Broadcast	Extensive injury at all rates; excellent weed control
13245	Barricade 65WG (Proflaminate)	Pineland Threawn (Aristida stricta) 'Pineland 3 Awn'	Turf	Norcini	FL	1998	Over the top	Chiefland location: No significant injury.

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13245	Barricade 65WG (Proflaminate)	Pineland Threawn (<i>Aristida stricta</i>) 'Pineland 3 Awn'	Turf	Norcini	FL	1998	Over the top	Monticello location: No significant injury.
06894	Barricade 65WG (Proflaminate)	Privet (<i>Ligustrum</i> sp.) <i>L. japonicum</i>	Field Container	Gilliam	AL	1994	Broadcast	No significant injury; excellent spurge control
06894	Barricade 65WG (Proflaminate)	Privet (<i>Ligustrum</i> sp.) <i>L. ovalifolium</i>	Field Container	Senesac	NY	1994	Foliar	Slight but transient injury.
06894	Barricade 65WG (Proflaminate)	Privet (<i>Ligustrum</i> sp.) <i>ligustrum</i>	Field Container	Fraelich	GA	1996	Broadcast	Very slight injury increasing with rate; excellent weed control
06457	Barricade 65WG (Proflaminate)	Rose (<i>Rosa</i> sp.) <i>R. chinensis minima</i>	Field In-Ground	Boydston	WA	1995	Broadcast	No injury at 1.5 or 3.0 lb ai per acre, but 6.0 lb ai per acre caused marginal leaf necrosis only on treated leaves - newly emerged leaves did not exhibit any phytotoxicity; excellent control of annual weeds at all rates.
12932	Barricade 65WG (Proflaminate)	Rosemallow (<i>Hibiscus</i> sp.) <i>H. rosa-sinensis</i> 'Brilliant'	Field Container	Elmore	CA	1977	Directed	No significant injury.
22953	Barricade 65WG (Proflaminate)	Sage (<i>Salvia daghestanica</i>)	Field Container	Klett	CO	2002		Trial 1: No significant phytotoxicity; significant weed control.
22953	Barricade 65WG (Proflaminate)	Sage (<i>Salvia daghestanica</i>)	Field Container	Klett	CO	2002		Trial 2: No significant phytotoxicity; good weed control.
12413	Barricade 65WG (Proflaminate)	Sage, Russian (<i>Perovskia</i> sp.) <i>P. atriplicifolia</i>	Field Container	Senesac	NY	1997	Over the top	No significant injury.
12416	Barricade 65WG (Proflaminate)	Scarlet Sage (<i>Salvia splendens</i>) <i>S. x sylvestris</i> 'Roae Queen'	Field Container	Senesac	NY	1998	Broadcast	No significant injury; no weeds present at time of application
23008	Barricade 65WG (Proflaminate)	Sea Campion (<i>Silene uniflora</i>) <i>S. caroliniana</i>	Field Container	Senesac	NY	2002	Over the top	Moderate but transient injury; no reduction in fresh weight at the end of the experiment.
11444	Barricade 65WG (Proflaminate)	Sealavender (<i>Limonium</i> sp.) 'Excellent Dark Blue'	Field In-Ground	Senesac	NY	1997		Significant injury increasing with rate; excellent control of common purslane and annual grasses.
11444	Barricade 65WG (Proflaminate)	Sealavender (<i>Limonium</i> sp.) <i>L. sinuatum</i>	Field In-Ground	Elmore	CA	1993	Broadcast	No injury at 0.75 lb ai per acre, but 1.5 lb ai per acre was marginal.
23478	Barricade 65WG (Proflaminate)	Sedge (<i>Carex</i> sp.) <i>C. pennsylvanica</i>	Field Container	Senesac	NY	2002	Over the top	A significant reduction in fresh weight was observed.
23001	Barricade 65WG (Proflaminate)	Snow-In-Summer (<i>Cerastium tomentosum</i>) <i>C. tomentosum</i>	Field Container	Senesac	NY	2002	Over the top	No significant phytotoxicity.
22954	Barricade 65WG (Proflaminate)	South American Skullcap (<i>Scutellaria racemosa</i>) <i>S. resinosa</i>	Field Container	Klett	CO	2002	Over the top	Trial 1: Apparently disease problems caused crop failure; excellent weed control
22954	Barricade 65WG (Proflaminate)	South American Skullcap (<i>Scutellaria racemosa</i>) <i>S. resinosa</i>	Field Container	Klett	CO	2002	Over the top	Trial 2: No significant phytotoxicity good weed control
20146	Barricade 65WG (Proflaminate)	Spanish Gold Broom (<i>Cytisus purgans</i>) 'Spanish Gold'	Field Container	Klett	CO	2000	Over the top	No significant injury; good weed control
23012	Barricade 65WG (Proflaminate)	Speedwell (<i>Veronica</i> sp.) <i>V. repens</i>	Field Container	Senesac	NY	2002	Over the top	No significant phytotoxicity.
13241	Barricade 65WG (Proflaminate)	Statice (<i>Goniolimon tataricum</i>)	Field In-Ground	Elmore	CA	1993	Broadcast	No significant injury; weed control was not satisfactory at 0.75 and 1.5 lb ai per acre.

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09724	Barricade 65WG (Prodiamine)	Stonecrop (Sedum sp.) S. spectabile	Field Container	Buriff	OH	1996	Broadcast	No injury.
09724	Barricade 65WG (Prodiamine)	Stonecrop (Sedum sp.) S. spurium 'Bronze Carpet'	Field Container	Senesac	NY	1996	Over the top	Significant injury increasing with rate.
23010	Barricade 65WG (Prodiamine)	Thyme, Creeping (Thymus serpyllum) T. serpyllum	Field Container	Senesac	NY	2002	Over the top	No significant phytotoxicity.
11661	Barricade 65WG (Prodiamine)	Trailing Shrubverbena (Lantana montevidensis) 'Lavender Weeping'	Field Container	Norcini	FL	1995	Over the top	Slight, but transient, cupping of leaves and delay of bloom, but only significant damage at 6.0 lb ai per acre; some control of chamberbitter.
18721	Barricade 65WG (Prodiamine)	Twinspur (Diascia integerrima)	Field Container	Klett	CO	1999	Over the top	No significant injury; good weed control at both rates
18721	Barricade 65WG (Prodiamine)	Twinspur (Diascia integerrima) 'Coral Canyon'	Field Container	Klett	CO	2000	Over the top	No significant injury; good weed control
25631	Barricade 65WG (Prodiamine)	Woodfern (Dryopteris x australis)	Field Container	Derr	VA	2006	Broadcast	No stand or growth reduction at all rates
25631	Barricade 65WG (Prodiamine)	Woodfern (Dryopteris x australis)	Field Container	Gilliam	AL	2006	Over the top	No injury or growth reduction at all rates
11440	Barricade 65WG (Prodiamine)	Yarrow, Common (Achillea millefolium)	Field In-Ground	Elmore	CA	1993	Directed	No significant injury at 0.75 and 1.5 lb ai per acre; week control was not satisfactory.
09338	Barricade 65WG (Prodiamine)	Zinnia (Zinnia sp.)	Field Container	Talbert	AR	1995	Broadcast	Severe injury at all rates (1, 4, and 8 lb ai per acre).
09338	Barricade 65WG (Prodiamine)	Zinnia (Zinnia sp.) 'White Star'	Field Container	Gilliam	AL	1994	Broadcast	Moderate stunting at all rates; researcher does not recommend use at rates of 3.0 lb ai per acre or greater.
09338	Barricade 65WG (Prodiamine)	Zinnia (Zinnia sp.) Z. elegans 'Peter Pan White'	Field Container	Gilliam	AL	1997	Ground	No significant visible injury, but 1.5 and 3.0 lb ai per acre resulted in significantly lower dry rates; excellent efficacy.
05270	Barricade G (Prodiamine)	Firethorn (Pyracantha sp.)	Field In-Ground	Kuhns	PA	1979		
05359	Barricade G (Prodiamine)	Red Cedar, Arborvitae (Thuja sp.)	Field In-Ground	Smith	OH	1978		No injury
13191	Factor 65WG (Prodiamine)	Ageratum (Ageratum sp.) A. houstonianum 'Blue Horizon'	Field In-Ground	Senesac	NY	1997	Over the top	No significant injury; excellent control of common purslane and annual grasses.
09711	Factor 65WG (Prodiamine)	Begonia (Begonia sp.) B. semperflorens-cultorum	Field Container	Buriff	OH	1996		No significant injury.
09711	Factor 65WG (Prodiamine)	Begonia (Begonia sp.) 'Vodka'	Field Container	Buriff	OH	1997		No significant injury.
13270	Factor 65WG (Prodiamine)	Blazing-Star (Liatris sp.)	Field Container	Senesac	NY	1998	Broadcast	No significant injury.
13268	Factor 65WG (Prodiamine)	Bleeding Heart (Dicentra sp.)	Field Container	Senesac	NY	1998	Broadcast	Some injury at the 3.0 & 6.0 lb per acre rate.
12408	Factor 65WG (Prodiamine)	Bluestar (Amsonia sp.) A. hubrichtii	Field Container	Senesac	NY	1998	Over the top	No significant injury.

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09714	Factor 65WG (Proflaminate)	Daylily (Hemerocallis sp.) 'Flames of Fantasy'	Field Container	Senesac	NY	1994	Foliar	No injury.
09714	Factor 65WG (Proflaminate)	Daylily (Hemerocallis sp.) 'Flames of Fantasy'	Field Container	Senesac	NY	1996	Over the top	No injury.
09714	Factor 65WG (Proflaminate)	Daylily (Hemerocallis sp.) hemerocallis	Field Container	Fraelich	GA	1996	Broadcast	Slight injury at 1.5 lb ai per acre; a few plants were unsaleable at the 3.0 and 6.0 rate; excellent weed control
09714	Factor 65WG (Proflaminate)	Daylily (Hemerocallis sp.) 'Sammy Russell'	Field Container	Fare	TN	1996	Foliar	No significant injury; some control of crabgrass and spurge.
09714	Factor 65WG (Proflaminate)	Daylily (Hemerocallis sp.) 'Sammy Russell'	Field Container	Fare	TN	1997	Foliar	No significant injury; excellent weed control
09714	Factor 65WG (Proflaminate)	Daylily (Hemerocallis sp.) 'Stella D'Oro'	Field Container	Buriff	OH	1996	Broadcast	No injury.
13247	Factor 65WG (Proflaminate)	Dogwood, Pagoda (Cornus alternifolia)	Field Container	Senesac	NY	1997	Over the top	No significant injury.
12414	Factor 65WG (Proflaminate)	False Dragon Head; Lion's Heart (Physostegia sp.) P. virginiana 'Vivid'	Field Container	Senesac	NY	1997	Over the top	No initial injury, but 1.5 and 3.0 lb ai per acre exhibited slight injury 3 and 6 weeks after treatment.
12440	Factor 65WG (Proflaminate)	False Goat's Beard (Astilbe sp.)	Field Container	Senesac	NY	1996	Over the top	Virtually no injury at 1.5 and 3.0 lb ai per acre, but extensive injury occurred at 6.0 lb per acre rate.
12440	Factor 65WG (Proflaminate)	False Goat's Beard (Astilbe sp.)	Field Container	Senesac	NY	1997	Over the top	No significant injury; no weeds present at time of application
12440	Factor 65WG (Proflaminate)	False Goat's Beard (Astilbe sp.) A. x aren 'Gloria Purpurea'	Field Container	Ahrens	CT	1998	Broadcast	No injury at 0.75 and 1.5 lb ai per acre, slight injury at 3.0 lb ai per acre.
26413	Factor 65WG (Proflaminate)	Forsythia (Forsythia sp.) F. x intermedia 'Lynwood Gold'	Field Container	Senesac	NY	1996	Over the top	No significant injury.
26413	Factor 65WG (Proflaminate)	Forsythia (Forsythia sp.) F. x intermedia 'Lynwood Gold'	Field Container	Senesac	NY	1997	Over the top	No significant injury.
12174	Factor 65WG (Proflaminate)	Foxglove (Digitalis sp.)	Field Container	Talbert	AL	1998	Over the top	No injury.
12174	Factor 65WG (Proflaminate)	Foxglove (Digitalis sp.) D. purpurea 'Excelsior'	Field Container	Senesac	NY	1996	Over the top	No significant injury.
13193	Factor 65WG (Proflaminate)	Garden Snapdragon (Antirrhinum majus) 'Rocket Rose'	Field In-Ground	Senesac	NY	1997	Over the top	No significant injury; excellent control of common purslane and annual grasses.
13125	Factor 65WG (Proflaminate)	Larkspur (Delphinium sp.) D. elatum 'Pacific Giant Galahad'	Field In-Ground	Senesac	NY	1997	Over the top	Moderate injury was observed; excellent weed control
13125	Factor 65WG (Proflaminate)	Larkspur (Delphinium sp.) D. x cultorum 'Magic Rountain Sky Blue w/White'	Field In-Ground	Senesac	NY	1997	Over the top	Moderate injury was observed; excellent weed control
13266	Factor 65WG (Proflaminate)	Ornamental Cabbage/Kale (Brassica oleracea) B. oleracea 'Dynasty Red' Cabbage	Field Container	Senesac	NY	1998	Over the top	No significant injury.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
13266	Factor 65WG (Prodiamine)	Ornamental Cabbage/Kale (Brassica oleracea) B. oleracea 'Nagoya Red' Kale	Field Container	Senesac	NY	1998	Over the top	No significant injury.
13266	Factor 65WG (Prodiamine)	Ornamental Cabbage/Kale (Brassica oleracea) B. oleracea 'Nagoya White' Kale	Field Container	Senesac	NY	1998	Over the top	No significant injury.
13266	Factor 65WG (Prodiamine)	Ornamental Cabbage/Kale (Brassica oleracea) B. oleracea 'Osaka Red' Cabbage	Field Container	Senesac	NY	1998	Over the top	No significant injury.
13266	Factor 65WG (Prodiamine)	Ornamental Cabbage/Kale (Brassica oleracea) B. oleracea 'Osaka White' Cabbage	Field Container	Senesac	NY	1998	Over the top	Slight reduction in fresh weight at 3.0 and 6.0 lb ai per acre.
13439	Factor 65WG (Prodiamine)	Palm, Dwarf Date; Pygmy Date Palm (Phoenix roebelinii)	Field Container	Broschat	FL	1998	Foliar	No significant injury; fair to good weed control
13438	Factor 65WG (Prodiamine)	Palm, Yellow Butterfly; Areca Palm (Dypsis lutescens)	Field Container	Broschat	FL	1998	Foliar	No significant injury; fair weed control
07379	Factor 65WG (Prodiamine)	Sacred Bamboo (Nandina domestica) 'Atropurpurea nana'	Field Container	Gilliam	AL	1994	Broadcast	No injury; excellent spurge control
13269	Factor 65WG (Prodiamine)	Seaside Eryngo; Sea Holly (Eryngium maritimum) E. planum	Field Container	Senesac	NY	1998	Broadcast	No significant injury.
13123	Factor 65WG (Prodiamine)	Strawflower, Bracted (Xerochrysum bracteatum) 'Fireball'	Field In-Ground	Senesac	NY	1997	Over the top	Some injury was observed; excellent weed control
12171	Factor 65WG (Prodiamine)	Violet (Viola sp.) V. tricolor 'Clear Sky True Blue'	Field Container	Beste (ARS)	MD	1996	Broadcast	Very slight visible injury on recently transplanted pansy, but significant reduction in growth and flower counts occurred.
12171	Factor 65WG (Prodiamine)	Violet (Viola sp.) V. x wittrockiana 'Bingo Blue with Blotch'	Field Container	Senesac	NY	1998	Broadcast	No significant injury.
12171	Factor 65WG (Prodiamine)	Violet (Viola sp.) V. x wittrockiana 'Crystal Bowl Yellow'	Field Container	Senesac	NY	1998	Broadcast	No significant injury; no weeds present at time of application
12407	Factor 65WG (Prodiamine)	Yarrow, Common (Achillea millefolium) 'Cerise Queen'	Field Container	Senesac	NY	1997	Over the top	No significant injury; no weeds present at time of application
12407	Factor 65WG (Prodiamine)	Yarrow, Common (Achillea millefolium) 'Cloth of Gold'	Field Container	Ahrens	CT	1998	Over the top	No injury.
12407	Factor 65WG (Prodiamine)	Yarrow, Common (Achillea millefolium) 'Pink Deb'	Field Container	Fare	TN	1997	Over the top	No injury at 1.5, 3 and 6 lb per acre.
06918	Rydex 2 E (US Borax) (Prodiamine)	Arrowwood (Viburnum sp.)	Field Container	Glaze	GA	1979	Injection	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06875	Rydex 2 E (US Borax) (Prodiamine)	Aucuba (Aucuba sp.)	Field Container	Glaze	GA	1979	Injection	Slight injury increasing with rate.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
04446	Rydex 2 E (US Borax) (Prodiamine)	Azalea & Rhododendron (Rhododendron sp.) R. formosa	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
04446	Rydex 2 E (US Borax) (Prodiamine)	Azalea & Rhododendron (Rhododendron sp.) R. obtusum 'Coral Belle'	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06878	Rydex 2 E (US Borax) (Prodiamine)	Boxwood (Buxus sp.)	Field Container	Glaze	GA	1979	Injection	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
04520	Rydex 2 E (US Borax) (Prodiamine)	Chokeberry (Photinia sp.)	Field Container	Glaze	GA	1979	Injection	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06885	Rydex 2 E (US Borax) (Prodiamine)	Gardenia (Gardenia sp.)	Field Container	Glaze	GA	1979	Injection	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
07363	Rydex 2 E (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata	Field Container	Glaze	GA	1979	Injection	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
26373	Rydex 2 E (US Borax) (Prodiamine)	Juniper (Juniperus sp.)	Field Container	Glaze	GA	1979	Injection	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06607	Rydex 2 E (US Borax) (Prodiamine)	Lilyturf (Liriope sp.)	Field Container	Glaze	GA	1979	Injection	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
04510	Rydex 2 E (US Borax) (Prodiamine)	Pampas Grass (Cortaderia sp.)	Field Container	Glaze	GA	1979	Injection	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
04510	Rydex 2 E (US Borax) (Prodiamine)	Pampas Grass (Cortaderia sp.)	Field Container	Phatak	GA	1978	Irrigation injection	Slight to moderate injury increasing with rate (2, 4, 8, 16 lb ai per acre).
06893	Rydex 2 E (US Borax) (Prodiamine)	Pine (Pinus sp.)	Field Container	Glaze	GA	1979	Injection	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
26374	Rydex 2 E (US Borax) (Prodiamine)	Privet (Ligustrum sp.)	Field Container	Glaze	GA	1979	Injection	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06880	Rydex 2 E (US Borax) (Prodiamine)	Sakaki, Cleyera (Cleyera japonica)	Field Container	Glaze	GA	1979	Injection	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06917	Rydex 2 E (US Borax) (Prodiamine)	Yew Plum Pine (Podocarpus macrophyllus)	Field Container	Glaze	GA	1979	Injection	Slight injury observed increasing with rate.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
26411	Rydex 50WP (US Borax) (Prodiamine)	Adam's Needle (Yucca filamentosa)	Field Container	Williams	IL	1978	Over the top	Slight chlorosis and necrosis to leaf tips; excellent preemergent control of weeds
07365	Rydex 50WP (US Borax) (Prodiamine)	Andromeda, Fetterbush (Pieris sp.) P. japonica 'Compacta'	Field In-Ground	Kuhns	PA	1979	Over the top	No injury; marginally acceptable control.
26425	Rydex 50WP (US Borax) (Prodiamine)	Andromeda, Japanese; Japanese Pieris (Pieris japonica)	Field Container	Ryan	WA	1979	Directed	No significant visible injury, but fresh weights were reduced; excellent control of barnyardgrass and bittercress.
07372	Rydex 50WP (US Borax) (Prodiamine)	Apple (Malus sp.) M. sieboldii	Field In-Ground	Bing	NY	1979	Directed	No significant injury.
07372	Rydex 50WP (US Borax) (Prodiamine)	Apple (Malus sp.) 'Toringo'	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
05798	Rydex 50WP (US Borax) (Prodiamine)	Arrowwood (Viburnum sp.)	Field Container	Phatak	GA	1978	Irrigation injection	No to minor injury increasing with rate (2, 4, 8, 16 lb ai per acre).
05798	Rydex 50WP (US Borax) (Prodiamine)	Arrowwood (Viburnum sp.) V. plicatum tomentosum	Field Container	Bing	NY	1978	Over the top	No significant injury; some reduction in weed number but no species recorded.
06592	Rydex 50WP (US Borax) (Prodiamine)	Arrowwood (Viburnum sp.) V. setigerum	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
06592	Rydex 50WP (US Borax) (Prodiamine)	Arrowwood (Viburnum sp.) V. wrightii	Field In-Ground	Bing	NY	1978	Over the top	Farmingdale: No significant injury.
06592	Rydex 50WP (US Borax) (Prodiamine)	Arrowwood (Viburnum sp.) V. wrightii	Field In-Ground	Bing	NY	1978	Over the top	Riverdale: No significant injury.
06610	Rydex 50WP (US Borax) (Prodiamine)	Aucuba (Aucuba sp.)	Field Container	Phatak	GA	1978	Irrigation injection	Slight injury increasing with rate
06602	Rydex 50WP (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) azalea	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
06601	Rydex 50WP (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) 'Caroline Gable'	Field Container	Ryan	WA	1979	Directed	Significant reduction in height and fresh weight; excellent control of barnyardgrass and bittercress.
06602	Rydex 50WP (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) 'Purple Splendor'	Field In-Ground	Kuhns	PA	1979	Over the top	No injury; adequate control for preemergent weeds but poor where weed seedlings had already emerged.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
06601	Rydex 50WP (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. formosa	Field Container	Phatak	GA	1978	Irrigation injection	Slight to moderate phytotoxicity increasing with rate.
06601	Rydex 50WP (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. 'Hinodegiri'	Field Container	Ryan	WA	1978	Directed	Slight to moderate reduction in shoot fresh weight increasing with rate.
06601	Rydex 50WP (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. obtusum 'Coral Belle'	Field Container	Phatak	GA	1978	Irrigation injection	Slight to moderate phytotoxicity increasing with rate.
06602	Rydex 50WP (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. obtusum 'Hinocrimson'	Field In-Ground	Bing	NY	1979	Directed	No significant injury.
06601	Rydex 50WP (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. 'Rosebud'	Field Container	Ryan	WA	1978	Directed	Slight to moderate reduction in shoot fresh weight increasing with rate.
07822	Rydex 50WP (US Borax) (Prodiamine)	Barberry (Berberis sp.) B. julianae	Field In-Ground	Haramaki	PA	1979	Over the top	No injury; good control of grasses and broadleaved weeds.
07822	Rydex 50WP (US Borax) (Prodiamine)	Barberry (Berberis sp.) B. mentorensis	Field In-Ground	Haramaki	PA	1979	Over the top	No injury; good control of grasses and broadleaved weeds.
07822	Rydex 50WP (US Borax) (Prodiamine)	Barberry (Berberis sp.) B. verruculosa	Field In-Ground	Haramaki	PA	1979	Over the top	No injury; good control of grasses and broadleaved weeds.
06593	Rydex 50WP (US Borax) (Prodiamine)	Boxwood (Buxus sp.)	Field Container	Phatak	GA	1978	Irrigation injection	Slight injury increasing with rate.
06593	Rydex 50WP (US Borax) (Prodiamine)	Boxwood (Buxus sp.) B. japonica	Field Container	Elmore	CA	1977	Directed	Slight injury at 2, 4, and 8 lb ai per acre.
06593	Rydex 50WP (US Borax) (Prodiamine)	Boxwood (Buxus sp.) B. microphylla	Field Container	Elmore	CA	1975	Soil applied broadcast	No significant injury; some suppression of comon grounsel with 2, 4, and 8 lb ai per acre.
06593	Rydex 50WP (US Borax) (Prodiamine)	Boxwood (Buxus sp.) B. sempervirens	Field Container	Elmore	CA	1975	Over the top	Slight injury at 2 and 8 lb ai per acre; Good to excellent efficacy of spotted spurge and creeping woodsorrel, some efficacy on common groundsel.
26418	Rydex 50WP (US Borax) (Prodiamine)	Brush Cherry (Syzygium paniculatum) 'Newport'	Field Container	Elmore	CA	1977	Directed	No injury.
26375	Rydex 50WP (US Borax) (Prodiamine)	Cape Weed (Arctotheca calendula)	Field In-Ground	Elmore	CA	1977		No significant injury; excellent efficacy of rough pigweed and prostrate pigweed.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
26369	Rydex 50WP (US Borax) (Prodiamine)	Cotoneaster (Cotoneaster sp.) C dammeri 'Lowfast'	Field Container	Ryan	WA	1979	Directed	No significant visible injury, but fresh weights were reduced; excellent control of barnyardgrass and bittercress.
26369	Rydex 50WP (US Borax) (Prodiamine)	Cotoneaster (Cotoneaster sp.) C. apiculata	Field Container	Williams	IL	1978	Over the top	Slight chlorosis and slight swelling of stem at soil line; good weed control
26369	Rydex 50WP (US Borax) (Prodiamine)	Cotoneaster (Cotoneaster sp.) C. dammeri	Field Container	Ticknor	OR	1978		No injury
06462	Rydex 50WP (US Borax) (Prodiamine)	Cotoneaster (Cotoneaster sp.) C. dammeri 'Lowfast'	Field In-Ground	Kuhns	PA	1979	Broadcast	No injury; marginally acceptable weed control.
26369	Rydex 50WP (US Borax) (Prodiamine)	Cotoneaster (Cotoneaster sp.) C. dammeri 'Lowfast'	Field Container	Ryan	WA	1978	Directed	No significant injury
26369	Rydex 50WP (US Borax) (Prodiamine)	Cotoneaster (Cotoneaster sp.) C. glacophylla	Field Container	Elmore	CA	1975	Broadcast	No significant injury; excellent control of italian ryegrass and creeping woodsorrel.
06462	Rydex 50WP (US Borax) (Prodiamine)	Cotoneaster (Cotoneaster sp.) C. microphylla	Field In-Ground	Haramaki	PA	1979	Over the top	Slight injury only at highest rate (8 lb ai per acre); reasonably good weed control.
00328	Rydex 50WP (US Borax) (Prodiamine)	Crape Myrtle (Lagerstroemia indica)	Field Container	Currey	FL	1978		
09273	Rydex 50WP (US Borax) (Prodiamine)	Cypress (Cupressus sp.) C. sempervirens 'Glauca'	Field Container	Elmore	CA	1977	Directed	No significant injury.
06618	Rydex 50WP (US Borax) (Prodiamine)	Dogwood (Cornus sp.) C. florida	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
06618	Rydex 50WP (US Borax) (Prodiamine)	Dogwood (Cornus sp.) C. stolonifera	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
06618	Rydex 50WP (US Borax) (Prodiamine)	Dogwood (Cornus sp.) C. stolonifera	Field In-Ground	Bing	NY	1979	Directed	No significant injury.
26371	Rydex 50WP (US Borax) (Prodiamine)	Dogwood (Cornus sp.) C. stolonifera	Field Container	Williams	IL	1978	Over the top	No injury; acceptable weed control
05238	Rydex 50WP (US Borax) (Prodiamine)	Firethorn (Pyracantha sp.) P. coccinea 'Lalandei'	Field In-Ground	Kuhns	PA	1979	Over the top	No injury; marginally acceptable control.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
00909	Rydex 50WP (US Borax) (Prodiamine)	Firethorn (Pyracantha sp.) P. fortuneana 'Graber'	Field Container	Elmore	CA	1975	Over the top	No significant injury; excellent efficacy of annual ryegrass and annual bluegrass.
00909	Rydex 50WP (US Borax) (Prodiamine)	Firethorn (Pyracantha sp.) P. 'Orange Glow'	Field Container	Ticknor	OR	1978		No injury.
06612	Rydex 50WP (US Borax) (Prodiamine)	Forsythia (Forsythia sp.)	Field In-Ground	Bing	NY	1978	Over the top	Farmingdale: No significant injury.
06611	Rydex 50WP (US Borax) (Prodiamine)	Forsythia (Forsythia sp.) F. 'Spring Glory'	Field Container	Ticknor	OR	1978		No injury.
06612	Rydex 50WP (US Borax) (Prodiamine)	Forsythia (Forsythia sp.) F. x intermedia	Field In-Ground	Bing	NY	1979	Directed	No significant injury.
06611	Rydex 50WP (US Borax) (Prodiamine)	Forsythia (Forsythia sp.) F. x intermedia	Field Container	Williams	IL	1978	Over the top	No injury; acceptable preemergent weed control.
06612	Rydex 50WP (US Borax) (Prodiamine)	Forsythia (Forsythia sp.) forsythia	Field In-Ground	Bing	NY	1978	Over the top	Riverhead: No significant injury.
06612	Rydex 50WP (US Borax) (Prodiamine)	Forsythia (Forsythia sp.) 'Lynwood Gold'	Field In-Ground	Ahrens	CT	1978	Over the top	No injury; excellent weed control
06612	Rydex 50WP (US Borax) (Prodiamine)	Forsythia (Forsythia sp.) 'Lynwood Gold'	Field In-Ground	Ahrens	CT	1979	Over the top	No injury; excellent weed control.
06603	Rydex 50WP (US Borax) (Prodiamine)	Gardenia (Gardenia sp.)	Field Container	Currey	FL	1979		
06603	Rydex 50WP (US Borax) (Prodiamine)	Gardenia (Gardenia sp.)	Field Container	Phatak	GA	1978	Irrigation injection	Very slight to slight injury increasing with rate.
07370	Rydex 50WP (US Borax) (Prodiamine)	Hemlock (Tsuga sp.) hemlock tsuga	Field In-Ground	Bing	NY	1978	Over the top	Farmingdale: No significant injury.
07370	Rydex 50WP (US Borax) (Prodiamine)	Hemlock (Tsuga sp.) T. canadensis	Field In-Ground	Bing	NY	1979	Directed	No significant injury.
06474	Rydex 50WP (US Borax) (Prodiamine)	Holly (Ilex sp.)	Field In-Ground	Bing	NY	1978	Over the top	Farmindale: No significant injury.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
04475	Rydex 50WP (US Borax) (Prodiamine)	Holly (Ilex sp.) I. cornuta 'Bufordii'	Field Container	Elmore	CA	1977	Directed	No significant injury.
06474	Rydex 50WP (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata	Field In-Ground	Bing	NY	1979	Directed	No significant injury.
04475	Rydex 50WP (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata	Field Container	Phatak	GA	1978	Irrigation injection	Slight injury increasing with rate.
04475	Rydex 50WP (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata convexa	Field Container	Ticknor	OR	1978		No injury.
04475	Rydex 50WP (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata 'Howardi'	Field Container	Ryan	WA	1978	Directed	No significant injury.
04475	Rydex 50WP (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata 'Howardi'	Field Container	Ryan	WA	1979	Directed	No significant injury; excellent control of barnyardgrass and bittercress.
06474	Rydex 50WP (US Borax) (Prodiamine)	Holly (Ilex sp.) I. opaca	Field In-Ground	Haramaki	PA	1979	Over the top	Very slight injury; reasonably good control.
05235	Rydex 50WP (US Borax) (Prodiamine)	Honeysuckle (Lonicera sp.) L. japonica	Field In-Ground	Elmore	CA	1977	Broadcast	No significant phytotoxicity; excellent efficacy for rough pigweed and good control of prostrate pigweed and sowthistle.
06620	Rydex 50WP (US Borax) (Prodiamine)	Ivy, English (Hedera helix)	Field In-Ground	Bing	NY	1978	Over the top	Farmingdale: No significant injury.
06620	Rydex 50WP (US Borax) (Prodiamine)	Ivy, English (Hedera helix)	Field In-Ground	Elmore	CA	1977		No significant injury; excellent efficacy of rough pigweed and prostrate pigweed.
06620	Rydex 50WP (US Borax) (Prodiamine)	Ivy, English (Hedera helix)	Field In-Ground	Williams	IL	1978	Soil Incorporation	No significant injury; excellent weed control.
06620	Rydex 50WP (US Borax) (Prodiamine)	Ivy, English (Hedera helix) hедера helix	Field In-Ground	Bing	NY	1978	Over the top	Riverhead: No significant injury.
06613	Rydex 50WP (US Borax) (Prodiamine)	Japanese Mock Orange (Pittosporum tobira)	Field Container	Glaze	GA	1979	Injection	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06613	Rydex 50WP (US Borax) (Prodiamine)	Japanese Mock Orange (Pittosporum tobira)	Field Container	Phatak	GA	1978	Irrigation injection	Slight to moderate injury increasing with rate.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
06466	Rydex 50WP (US Borax) (Prodiamine)	Juniper (Juniperus sp.)	Field Container	Phatak	GA	1978	Irrigation injection	Slight injury increasing with rate.
06473	Rydex 50WP (US Borax) (Prodiamine)	Juniper (Juniperus sp.)	Field In-Ground	Talbert	AR	1979	Over the top	No injury; poor to excellent control of pigweed and mediocre to good control of goosegrass and signalgrass.
06473	Rydex 50WP (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. chinensis 'Glauca Hetzii'	Field In-Ground	Kuhns	PA	1979	Over the top	No injury; marginally adequate control.
06466	Rydex 50WP (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. chinensis 'sargentii'	Field Container	Williams	IL	1978	Over the top	Slight injury but not commercially significant; excellent weed control
06466	Rydex 50WP (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. chinensis var chinensis 'Torulosa'	Field Container	Elmore	CA	1977	Directed	No injury.
06473	Rydex 50WP (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. horizontalis andorra compacta	Field In-Ground	Ahrens	CT	1978	Over the top	No injury; excellent weed control
06473	Rydex 50WP (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. horizontalis andorra compacta	Field In-Ground	Ahrens	CT	1979	Over the top	No injury; excellent weed control.
06473	Rydex 50WP (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. horizontalis plumosa	Field In-Ground	Bing	NY	1979	Directed	No significant injury.
06466	Rydex 50WP (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. horizontalis plumosa	Field Container	Ticknor	OR	1978	Broadcast	No injury.
06473	Rydex 50WP (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. horizontalis 'Plumosa';	Field In-Ground	Kuhns	PA	1979	Over the top	No injury; marginally adequate control.
06473	Rydex 50WP (US Borax) (Prodiamine)	Juniper (Juniperus sp.) juniper	Field In-Ground	Bing	NY	1978	Over the top	Farmingdale: No significant injury.
06473	Rydex 50WP (US Borax) (Prodiamine)	Juniper (Juniperus sp.) juniper	Field In-Ground	Bing	NY	1978	Over the top	Riverhead: No significant injury.
18726	Rydex 50WP (US Borax) (Prodiamine)	Lily-Of-The-Nile (Agapanthus sp.) A. africanus	Field Container	Elmore	CA	1977	Directed	No significant injury.
06608	Rydex 50WP (US Borax) (Prodiamine)	Lilyturf (Liriope sp.)	Field Container	Phatak	GA	1978	Irrigation injection	Slight to moderate injury increasing with rate (2, 4, 8, and 16 lb ai per acre).

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
07374	Rydex 50WP (US Borax) (Prodiamine)	Maple (Acer sp.)	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
07375	Rydex 50WP (US Borax) (Prodiamine)	Oak (Quercus sp.) Q. borealis	Field In-Ground	Bing	NY	1979	Directed	No significant injury.
07375	Rydex 50WP (US Borax) (Prodiamine)	Oak (Quercus sp.) Q. rubra	Field In-Ground	Bing	NY	1978	Over the top	Farmingdale: No significant injury.
07375	Rydex 50WP (US Borax) (Prodiamine)	Oak (Quercus sp.) Q. rubra	Field In-Ground	Bing	NY	1978	Over the top	Riverhead: No significant injury.
04432	Rydex 50WP (US Borax) (Prodiamine)	Pampas Grass (Cortaderia sp.)	Field Container	Glaze	GA	1978	Injection	Very slight to slight injury increasing with rate.
04432	Rydex 50WP (US Borax) (Prodiamine)	Pampas Grass (Cortaderia sp.)	Field Container	Phatak	GA	1978	Irrigation injection	Minor to moderate injury increasing with rate.
06624	Rydex 50WP (US Borax) (Prodiamine)	Pine (Pinus sp.) P. strobus	Field In-Ground	Ahrens	CT	1978	Over the top	No phytotoxicity; excellent weed control.
06624	Rydex 50WP (US Borax) (Prodiamine)	Pine (Pinus sp.) P. strobus	Field In-Ground	Ahrens	CT	1979	Over the top	No injury; excellent weed control.
06624	Rydex 50WP (US Borax) (Prodiamine)	Pine (Pinus sp.) P. strobus	Field In-Ground	Bing	NY	1978	Over the top	Farmingdale: No significant injury.
06624	Rydex 50WP (US Borax) (Prodiamine)	Pine (Pinus sp.) P. strobus	Field In-Ground	Bing	NY	1978	Over the top	Riverhead: No significant injury.
06624	Rydex 50WP (US Borax) (Prodiamine)	Pine (Pinus sp.) P. strobus	Field In-Ground	Bing	NY	1979	Directed	No significant injury.
06624	Rydex 50WP (US Borax) (Prodiamine)	Pine (Pinus sp.) P. sylvestris	Field In-Ground	Williams	IL	1978	Directed	No injury; excellent weed control.
06624	Rydex 50WP (US Borax) (Prodiamine)	Pine (Pinus sp.) P. thunbergii	Field In-Ground	Bing	NY	1978	Over the top	Farmingdale: No significant injury.
06624	Rydex 50WP (US Borax) (Prodiamine)	Pine (Pinus sp.) P. thunbergii	Field In-Ground	Bing	NY	1979	Directed	No significant injury.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
06596	Rydex 50WP (US Borax) (Prodiamine)	Privet (Ligustrum sp.)	Field In-Ground	Bing	NY	1978	Over the top	Farmingdale: No significant injury.
06595	Rydex 50WP (US Borax) (Prodiamine)	Privet (Ligustrum sp.)	Field Container	Phatak	GA	1978	Irrigation injection	None to slight injury increasing with rate
06595	Rydex 50WP (US Borax) (Prodiamine)	Privet (Ligustrum sp.) L. amurense	Field Container	Williams	IL	1978	Over the top	No significant injury; acceptable weed control
06595	Rydex 50WP (US Borax) (Prodiamine)	Privet (Ligustrum sp.) L. lucida	Field Container	Ticknor	OR	1978		No injury.
06596	Rydex 50WP (US Borax) (Prodiamine)	Privet (Ligustrum sp.) L. ovalifolium	Field In-Ground	Bing	NY	1979	Directed	No significant injury.
06596	Rydex 50WP (US Borax) (Prodiamine)	Privet (Ligustrum sp.) privet	Field In-Ground	Bing	NY	1978	Over the top	Riverhead: No significant injury.
06590	Rydex 50WP (US Borax) (Prodiamine)	Red Cedar, Arborvitae (Thuja sp.) T. occidentalis	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
05792	Rydex 50WP (US Borax) (Prodiamine)	Red Cedar, Arborvitae (Thuja sp.) T. occidentalis	Field Container	Williams	IL	1978	Over the top	No injury; commercially acceptable weed control
06590	Rydex 50WP (US Borax) (Prodiamine)	Red Cedar, Arborvitae (Thuja sp.) T. occidentalis 'Woodwardii'	Field In-Ground	Kuhns	PA	1979	Over the top	No injury; adequate control for preemergent weeds but poor where weed seedlings had already emerged.
06590	Rydex 50WP (US Borax) (Prodiamine)	Red Cedar, Arborvitae (Thuja sp.) T. occidentalis 'Elegantissima'	Field In-Ground	Kuhns	PA	1979	Over the top	No injury; marginally acceptable control
26377	Rydex 50WP (US Borax) (Prodiamine)	Redwood (Sequoia sempervirens)	Field Container	Elmore	CA	1977		Slight injury at 2 and 4 lb ai per acre.
06597	Rydex 50WP (US Borax) (Prodiamine)	Rhododendron (Rhododendron sp.) 'Hino Crimson'	Field Container	Ticknor	OR	1978		No injury.
06598	Rydex 50WP (US Borax) (Prodiamine)	Rhododendron (Rhododendron sp.) R. catawbiense 'Roseum Elegans'	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
06598	Rydex 50WP (US Borax) (Prodiamine)	Rhododendron (Rhododendron sp.) R. chionoides	Field In-Ground	Haramaki	PA	1979	Over the top	No significant injury; excellent control of broadleaves and grasses.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
06598	Rydex 50WP (US Borax) (Proflaminate)	Rhododendron (Rhododendron sp.) 'Roseum Elegans'	Field In-Ground	Kuhns	PA	1979	Over the top	No injury; marginally acceptable control.
11807	Rydex 50WP (US Borax) (Proflaminate)	Rose (Rosa sp.) japanese maple	Field In-Ground	Bing	NY	1978	Over the top	Some injury, but undescribed.
26376	Rydex 50WP (US Borax) (Proflaminate)	Sacred Bamboo (Nandina domestica)	Field Container	Elmore	CA	1977		No significant injury
06615	Rydex 50WP (US Borax) (Proflaminate)	Sakaki, Cleyera (Cleyera japonica)	Field Container	Phatak	GA	1978	Irrigation injection	Very slight to slight injury increasing with rate.
06606	Rydex 50WP (US Borax) (Proflaminate)	Spindletree (Euonymus sp.) E. fortunei	Field In-Ground	Bing	NY	1978	Over the top	Farmingdale: No significant injury.
06606	Rydex 50WP (US Borax) (Proflaminate)	Spindletree (Euonymus sp.) E. fortunei	Field In-Ground	Bing	NY	1978	Over the top	Riverhead: No significant injury.
06606	Rydex 50WP (US Borax) (Proflaminate)	Spindletree (Euonymus sp.) E. fortunei colorata	Field In-Ground	Kuhns	PA	1979	Over the top	No injury; marginally acceptable control.
06605	Rydex 50WP (US Borax) (Proflaminate)	Spindletree (Euonymus sp.) E. fortunei 'Emerald Cushion'	Field Container	Ryan	WA	1978	Directed	No visible injury or reduction in fresh weight.
06605	Rydex 50WP (US Borax) (Proflaminate)	Spindletree (Euonymus sp.) E. fortunei 'Emerald Cushion'	Field Container	Ryan	WA	1979	Directed	No significant injury; excellent control of barnyardgrass and bittercress.
06605	Rydex 50WP (US Borax) (Proflaminate)	Spindletree (Euonymus sp.) E. fortunei 'Vegeta'	Field Container	Williams	IL	1978	Over the top	Slight chlorosis of young leaves; excellent weed control.
06605	Rydex 50WP (US Borax) (Proflaminate)	Spindletree (Euonymus sp.) E. japonica	Field Container	Elmore	CA	1977	Directed	No significant injury.
06605	Rydex 50WP (US Borax) (Proflaminate)	Spindletree (Euonymus sp.) E. japonica 'Aureo-variegata'	Field Container	Elmore	CA	1977		Very slight initial injury with 2 and 4 lb ai per acre; Significant injury observed 6 months after treatment, however weeded control also exhibited significant injury.
06606	Rydex 50WP (US Borax) (Proflaminate)	Spindletree (Euonymus sp.) E. kiautschovicus	Field In-Ground	Haramaki	PA	1979	Over the top	Moderate to severe injury; reasonably good control.
06605	Rydex 50WP (US Borax) (Proflaminate)	Spindletree (Euonymus sp.) E. microphylla variegata	Field Container	Ticknor	OR	1978		No injury.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
26423	Rydex 50WP (US Borax) (Prodiamine)	Spruce (Picea sp.)	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
26417	Rydex 50WP (US Borax) (Prodiamine)	Water Willow (Justicia sp.) J. brandegeana	Field Container	Elmore	CA	1977	Directed	No significant injury.
09275	Rydex 50WP (US Borax) (Prodiamine)	Wedge-Leaf Hopbush (Dodonaea viscosa ssp. cuneata) 'Purpurea'	Field Container	Elmore	CA	1977	Directed	No injury.
05285	Rydex 50WP (US Borax) (Prodiamine)	Yew (Taxus sp.)	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
05285	Rydex 50WP (US Borax) (Prodiamine)	Yew (Taxus sp.) T. cuspidata	Field In-Ground	Ahrens	CT	1978	Over the top	No injury; excellent weed control
05285	Rydex 50WP (US Borax) (Prodiamine)	Yew (Taxus sp.) T. cuspidata	Field In-Ground	Ahrens	CT	1979	Over the top	No injury; excellent weed control.
05285	Rydex 50WP (US Borax) (Prodiamine)	Yew (Taxus sp.) T. cuspidata 'Hicksii'	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
05285	Rydex 50WP (US Borax) (Prodiamine)	Yew (Taxus sp.) T. media 'Hatfieldii'	Field In-Ground	Kuhns	PA	1979	Over the top	No injury; marginally acceptable control.
05285	Rydex 50WP (US Borax) (Prodiamine)	Yew (Taxus sp.) T. media 'Hicksii'	Field In-Ground	Kuhns	PA	1979	Over the top	No injury; marginally acceptable control.
05797	Rydex 50WP (US Borax) (Prodiamine)	Yew (Taxus sp.) T. x media	Field Container	Williams	IL	1978	Over the top	No significant phytotoxicity; good weed control
06621	Rydex 50WP (US Borax) (Prodiamine)	Yew Plum Pine (Podocarpus macrophyllus)	Field Container	Phatak	GA	1978	Irrigation injection	Slight injury increasing with rate (2, 4, 8, and 16 lb ai per acre)

Table 7. Detailed Summary of Crop Safety Testing with Granular Formulations of Prodiamine

Notes: Table entries are sorted by crop Latin name. Only prodiamine reports received by 8/26/2020 are included in this table.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
26480	RegalKade G (Prodiamine)	Asian Netvein Hollyfern (Cyrtomium fortunei)	Field Container	Gilliam	AL	2007	Over the top	No injury or growth reduction at 0.75, 1.5 and 3 lb ai per acre
26480	RegalKade G (Prodiamine)	Asian Netvein Hollyfern (Cyrtomium fortunei)	Field Container	Neal	NC	2006	Over the top	No significant injury at 0.75, 1.5 and 3 lb ai per acre.
26370	RegalKade G (Prodiamine)	Begonia (Begonia sp.) B. semperflorens-cultorum	Field Container	Gilliam	AL	1997		No significant injury; excellent weed control
25581	RegalKade G (Prodiamine)	Fern, Autumn (Dryopteris erythrosora)	Field Container	Gilliam	AL	2007	Over the top	No injury or growth reduction at 0.75, 1.5 and 3 lb ai per acre
25581	RegalKade G (Prodiamine)	Fern, Autumn (Dryopteris erythrosora)	Field Container	Neal	NC	2006	Over the top	No significant injury at 0.75, 1.5 and 3 lb ai per acre.
26486	RegalKade G (Prodiamine)	Fern, Christmas (Polystichum acrostichoides)	Field Container	Gilliam	AL	2007	Over the top	No injury or growth reduction at 0.75, 1.5 and 3 lb ai per acre
26486	RegalKade G (Prodiamine)	Fern, Christmas (Polystichum acrostichoides)	Field Container	Neal	NC	2006	Over the top	No significant injury at 0.75, 1.5 and 3 lb ai per acre.
26486	RegalKade G (Prodiamine)	Fern, Christmas (Polystichum acrostichoides) Christmas Fern	Field Container	Gilliam	AL	2006	Over the top	No injury or growth reduction at 0.75, 1.5 and 3 lb ai per acre.
26484	RegalKade G (Prodiamine)	Fern, Cinnamon (Osmunda cinnamomea)	Field Container	Neal	NC	2006	Over the top	No significant injury at 0.75, 1.5 and 3 lb ai per acre.
26484	RegalKade G (Prodiamine)	Fern, Cinnamon (Osmunda cinnamomea) Cinnamon Fern	Field Container	Gilliam	AL	2006	Over the top	No injury at 0.75, 1.5 and 3 lb ai per acre; significant growth reduction at 4X.
26478	RegalKade G (Prodiamine)	Fern, Lady (Athyrium filix-femina)	Field Container	Neal	NC	2006	Over the top	No significant injury at 0.75, 1.5 and 3 lb ai per acre.
26479	RegalKade G (Prodiamine)	Fern, Lady (Athyrium nipponicum) 'Pictum'	Field Container	Neal	NC	2006	Over the top	Japenese Painted fern. No significant injury at 0.75, 1.5 and 3 lb ai per acre.
27547	RegalKade G (Prodiamine)	Fern, Maidenhair (Adiantum sp.)	Field Container	Derr	VA	2007	Over the top	No injury at 1.5 lb ai per acre
27551	RegalKade G (Prodiamine)	Fern, Marginal Wood (Dryopteris marginalis)	Field Container	Gilliam	AL	2007	Over the top	No injury or growth reduction at 0.75, 1.5 and 3 lb ai per acre
26482	RegalKade G (Prodiamine)	Fern, Ostrich (Matteuccia struthiopteris)	Field Container	Neal	NC	2006	Over the top	No significant injury at 0.75, 1.5 and 3 lb ai per acre.
26485	RegalKade G (Prodiamine)	Fern, Royal (Osmunda regalis)	Field Container	Neal	NC	2006	Over the top	No significant injury at 0.75, 1.5 and 3 lb ai per acre.
26483	RegalKade G (Prodiamine)	Fern, Sensitive (Onoclea sensibilis)	Field Container	Neal	NC	2006	Over the top	No significant injury at 0.75, 1.5 and 3 lb ai per acre.
26414	RegalKade G (Prodiamine)	Geranium (Pelargonium sp.) P. x hortorum	Field Container	Gilliam	AL	1997	Ground	No significant injury; excellent weed control
25601	RegalKade G (Prodiamine)	Korean Tasselfen (Polystichum polyblepharum)	Field Container	Gilliam	AL	2007	Over the top	No injury or growth reduction at 0.75, 1.5 and 3 lb ai per acre

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
25601	RegalKade G (Prodiamine)	Korean Tasselfen (Polystichum polyblepharum)	Field Container	Neal	NC	2006	Over the top	No significant injury at 0.75, 1.5 and 3 lb ai per acre.
25601	RegalKade G (Prodiamine)	Korean Tasselfen (Polystichum polyblepharum) Tassel Fern	Field Container	Gilliam	AL	2006	Over the top	No injury or growth reduction at 0.75, 1.5 and 3 lb ai per acre
26415	RegalKade G (Prodiamine)	Marigold (Tagetes sp.) T. erecta	Field Container	Gilliam	AL	1997	Ground	No significant injury; good weed control.
26372	RegalKade G (Prodiamine)	Max Chrysanthemum (Leucanthemum maximum) 'Snow Lady'	Field Container	Gilliam	AL	1997	Broadcast	Extensive injury; excellent weed control
12406	RegalKade G (Prodiamine)	Scarlet Sage (Salvia splendens) 'Red Hot Sally'	Field Container	Gilliam	AL	1997	Ground	No significant injury.
26481	RegalKade G (Prodiamine)	Woodfern (Dryopteris x australis)	Field Container	Gilliam	AL	2007	Over the top	No injury or growth reduction at 0.75, 1.5 and 3 lb ai per acre
26481	RegalKade G (Prodiamine)	Woodfern (Dryopteris x australis)	Field Container	Neal	NC	2006	Over the top	No significant injury at 0.75, 1.5 and 3 lb ai per acre.
26481	RegalKade G (Prodiamine)	Woodfern (Dryopteris x australis) Dixie Wood Fern	Field Container	Gilliam	AL	2006	Over the top	No injury or growth reduction at 0.75, 1.5 and 3 lb ai per acre.
26424	Rydex 2G (US Borax) (Prodiamine)	Andromeda, Japanese; Japanese Pieris (Pieris japonica)	Field Container	Ryan	WA	1979	Soil applied broadcast	No significant injury; excellent control of barnyardgrass and bittercress.
07367	Rydex 2G (US Borax) (Prodiamine)	Apple (Malus sp.) M. sieboldii	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
07367	Rydex 2G (US Borax) (Prodiamine)	Apple (Malus sp.) torringo	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
06874	Rydex 2G (US Borax) (Prodiamine)	Arrowwood (Viburnum sp.)	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06874	Rydex 2G (US Borax) (Prodiamine)	Arrowwood (Viburnum sp.)	Field Container	Phatak	GA	1978	Over the top	Very slight to slight injury increasing with rate.
05241	Rydex 2G (US Borax) (Prodiamine)	Arrowwood (Viburnum sp.)	Field In-Ground	Smith	OH	1978	Soil applied broadcast	No injury at 3 lb ai per acre; moderate injury at 12 lb ai per acre.
05241	Rydex 2G (US Borax) (Prodiamine)	Arrowwood (Viburnum sp.) V. trilobium	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
05241	Rydex 2G (US Borax) (Prodiamine)	Arrowwood (Viburnum sp.) V. wrightii	Field In-Ground	Bing	NY	1979	Over the top	No significant injury.
06874	Rydex 2G (US Borax) (Prodiamine)	Arrowwood (Viburnum sp.) viburnum	Field Container	Bing	NY	1978	Over the top	No significant injury.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
06874	Rydex 2G (US Borax) (Prodiamine)	Arrowwood (Viburnum sp.) viburnum p. tomentosum	Field Container	Bing	NY	1978	Over the top	No significant injury.
06609	Rydex 2G (US Borax) (Prodiamine)	Aucuba (Aucuba sp.)	Field Container	Glaze	GA	1979	Over the top	Slight to moderate injury increasing with rate
06609	Rydex 2G (US Borax) (Prodiamine)	Aucuba (Aucuba sp.)	Field Container	Phatak	GA	1978	Over the top	Slight injury increasing with rate
06609	Rydex 2G (US Borax) (Prodiamine)	Aucuba (Aucuba sp.) A. japonica	Field Container	Currey	FL	1979		No injury; excellent control of Dactyloctenium, Digitaria, Oxalis, Cardamine, Linaria, Cyperus, and grasses.
06461	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) azalea	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
06467	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) azalea	Field Container	Bing	NY	1978	Over the top	No significant injury.
06467	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) azalea	Field Container	Bing	NY	1978	Over the top	No significant injury; rates increasing from 1 lb ai to 8 lb ai did reduce weed number in pots, but no notes were taken of which weeds were present.
06467	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) 'Caroline Gable'	Field Container	Ryan	WA	1979	Soil applied broadcast	Fresh weights were reduced; excellent control of barnyardgrass and bittercress.
06467	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) 'Delaware White'	Field Container	Bing	NY	1979	Soil applied broadcast	No significant injury; some control of oxalis and prostrate spurge.
06467	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. formosa	Field Container	Glaze	GA	1977		Very slight phytotoxicity 12 lb ai per acre; no injury at 4 and 8 lb ai per acre.
06467	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. formosa	Field Container	Glaze	GA	1977	Soil applied broadcast	Slight injury increasing with rate but hard to tease apart because weedy check also exhibited plant injury.
06467	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. formosa	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06467	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. formosa	Field Container	Phatak	GA	1978	Over the top	Very slight phytotoxicity 12 lb ai per acre; no injury at 4 and 8 lb ai per acre.
06461	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. gandavense	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
06461	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. 'Hershey Red'	Field In-Ground	Frank	MD	1979	Soil applied broadcast	No injury; good weed control.
06461	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. 'Hershey Red'	Field In-Ground	Frank	MD	1980	Soil applied broadcast	No injury; good weed control.
06461	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. Hershey Red'	Field In-Ground	Frank	MD	1981	Soil applied broadcast	No injury; poor weed control.
06467	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. 'Hinocrimson'	Field Container	Creager	MD	1980	Broadcast	No injury; some weed control.
06467	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. obtusum 'Coral Belle'	Field Container	Currey	FL	1978	Over the top	No injury; excellent control of crabgrass, goosegrass, yellow hawksbeard, oxalis, bittercress, alligatorweed (Eclipta), phyllanthus and spurge with 4 lb ai per acre.
06467	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. obtusum 'Coral Belle'	Field Container	Glaze	GA	1977		Very slight phytotoxicity at all rates initially; the 8 lb ai per acre rate did have significant injury at later reading dates but it is unclear whether it was due to the applications.
06467	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. obtusum 'Coral Belle'	Field Container	Glaze	GA	1977	Soil applied broadcast	Some injury noted; however weed check had same level of plant injury.
06467	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. obtusum 'Coral Belle'	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06467	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. obtusum 'Coral Belle'	Field Container	Phatak	GA	1978	Over the top	Slight injury increasing with rate.
06467	Rydex 2G (US Borax) (Prodiamine)	Azalea (Rhododendron sp.) R. obtusum 'President Clay'	Field Container	Currey	FL	1978	Over the top	No injury; excellent control of crabgrass, goosegrass, yellow hawksbeard, oxalis, bittercress, alligatorweed (Eclipta), phyllanthus and spurge with 4 lb ai per acre.
06864	Rydex 2G (US Borax) (Prodiamine)	Boxwood (Buxus sp.)	Field Container	Currey	FL	1979		No injury; excellent control of Phyllanthus, Digitaria, Eclipta, Ludwigia, Oxalis, Chamaesyce, Cardamine, and Euphorbiaceae.
06864	Rydex 2G (US Borax) (Prodiamine)	Boxwood (Buxus sp.)	Field Container	Glaze	GA	1977		No significant injury.
06864	Rydex 2G (US Borax) (Prodiamine)	Boxwood (Buxus sp.)	Field Container	Glaze	GA	1977	Soil applied broadcast	No significant injury.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
06864	Rydex 2G (US Borax) (Prodiamine)	Boxwood (Buxus sp.)	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06864	Rydex 2G (US Borax) (Prodiamine)	Boxwood (Buxus sp.)	Field Container	Phatak	GA	1978	Over the top	Slight injury increasing with rate.
05347	Rydex 2G (US Borax) (Prodiamine)	Boxwood (Buxus sp.)	Field In-Ground	Smith	OH	1978		No injury
06864	Rydex 2G (US Borax) (Prodiamine)	Boxwood (Buxus sp.) B. microphylla 'japonica'	Field Container	Currey	FL	1978	Over the top	No injury; excellent control of crabgrass, goosegrass, yellow hawksbeard, oxalis, bittercress, alligatorweed (Eclipta), phyllanthus and spurge with 4 lb ai per acre.
06864	Rydex 2G (US Borax) (Prodiamine)	Boxwood (Buxus sp.) boxwood	Field Container	Bing	NY	1978	Over the top	No significant injury.
26420	Rydex 2G (US Borax) (Prodiamine)	Carpet Bugleweed (Ajuga reptans)	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
06871	Rydex 2G (US Borax) (Prodiamine)	Chokeberry (Photinia sp.)	Field Container	Currey	FL	1979		No injury; excellent control of Euphorbiaceae, Oxalis, Digitaria, Cardamine, Eclipta, Phyllanthus, Ludwigia, and Chamasyce.
06871	Rydex 2G (US Borax) (Prodiamine)	Chokeberry (Photinia sp.)	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06871	Rydex 2G (US Borax) (Prodiamine)	Chokeberry (Photinia sp.) P. x Fraseri	Field Container	Currey	FL	1978	Over the top	No injury; excellent control of crabgrass, goosegrass, yellow hawksbeard, oxalis, bittercress, alligatorweed (Eclipta), phyllanthus and spurge with 4 lb ai per acre.
00902	Rydex 2G (US Borax) (Prodiamine)	Cotoneaster (Cotoneaster sp.) C. dammeri 'Lowfast'	Field Container	Creager	MD	1979	Broadcast	No significant injury.
00902	Rydex 2G (US Borax) (Prodiamine)	Cotoneaster (Cotoneaster sp.) C. dammeri 'Lowfast'	Field Container	Creager	MD	1980	Broadcast	No injury.
00902	Rydex 2G (US Borax) (Prodiamine)	Cotoneaster (Cotoneaster sp.) C. dammeri 'Lowfast'	Field Container	Ryan	WA	1979	Soil applied broadcast	No significant visible injury, but fresh weights were reduced; excellent control of barnyardgrass and bittercress.
00902	Rydex 2G (US Borax) (Prodiamine)	Cotoneaster (Cotoneaster sp.) C. dammeri 'Royal Beauty'	Field Container	Fretz	OH	1978	Broadcast	No injury; acceptable crabgrass control with the exception of the 8/14 readings, and excellent control of rough pigweed, foxtail and lambsquarters.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
00902	Rydex 2G (US Borax) (Prodiamine)	Cotoneaster (Cotoneaster sp.) cotoneaster	Field Container	Bing	NY	1978	Over the top	No significant injury.
00902	Rydex 2G (US Borax) (Prodiamine)	Cotoneaster (Cotoneaster sp.) cotoneaster	Field Container	Bing	NY	1979	Soil applied broadcast	No significant injury; some control of oxalis and prostrate spurge.
09726	Rydex 2G (US Borax) (Prodiamine)	Crape Myrtle (Lagerstroemia indica)	Field Container	Currey	FL	1978	Over the top	No injury; excellent control of crabgrass, goosegrass, yellow hawksbeard, oxalis, bittercress, alligatorweed (Eclipta), phyllanthus and spurge with 4 lb ai per acre.
09726	Rydex 2G (US Borax) (Prodiamine)	Crape Myrtle (Lagerstroemia indica)	Field Container	Currey	FL	1979	Over the top	No injury; excellent control of Euphorbiaceae, Oxalis, Digitaria, Youngia, Cardamine, Eclipta, Phyllanthus,, Ludwigia, and Chamaesyce.
05271	Rydex 2G (US Borax) (Prodiamine)	Dogwood (Cornus sp.) C. Florida	Field In-Ground	Bing	NY	1978	Over the top	No injury.
05271	Rydex 2G (US Borax) (Prodiamine)	Dogwood (Cornus sp.) C. stolonifera	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
05271	Rydex 2G (US Borax) (Prodiamine)	Dogwood (Cornus sp.) C. stolonifera	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
12927	Rydex 2G (US Borax) (Prodiamine)	Dogwood, Flowering (Cornus florida)	Field Container	Currey	FL	1978	Over the top	No injury; excellent control of crabgrass, goosegrass, yellow hawksbeard, oxalis, bittercress, alligatorweed (Eclipta), phyllanthus and spurge with 4 lb ai per acre.
12927	Rydex 2G (US Borax) (Prodiamine)	Dogwood, Flowering (Cornus florida)	Field Container	Currey	FL	1979		No injury; excellent control of Euphorbiaceae, Oxalis, Digitaria, Youngia, Cardamine, Eclipta, Phyllanthus, Ludwigia, and Chamaesyce.
26426	Rydex 2G (US Borax) (Prodiamine)	Fatsia (Fatsia sp.) F. japonica	Field Container	Currey	FL	1979		No injury; excellent efficacy of Dactyloctenium, Digitaria, Oxalis, Cardamine, Linaria, Cyperus, Phyllanthus, and Grasses.
06745	Rydex 2G (US Borax) (Prodiamine)	Firethorn (Pyracantha sp.)	Field Container	Currey	FL	1979		No injury; excellent control of Euphorbiaceae, Oxalis, Digitaria, Cardamine, Eclipta, Phyllanthus, Ludwigia, and Chamaesyce.
06745	Rydex 2G (US Borax) (Prodiamine)	Firethorn (Pyracantha sp.) P. coccinea	Field Container	Bing	NY	1978	Over the top	No injury.
06745	Rydex 2G (US Borax) (Prodiamine)	Firethorn (Pyracantha sp.) P. coccinea	Field Container	Bing	NY	1978	Over the top	No significant injury; some reduction in weed number but no species noted

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
06745	Rydex 2G (US Borax) (Prodiamine)	Firethorn (Pyracantha sp.) P. coccinea	Field Container	Fretz	OH	1978	Broadcast	Slight transient phytotoxicity; good crabgrass control with the exception of in July and August and good control of rough pigweed, lambsquarter, and foxtail.
06745	Rydex 2G (US Borax) (Prodiamine)	Firethorn (Pyracantha sp.) P. coccinea 'Mohave'	Field Container	Creager	MD	1979	Broadcast	No significant injury.
06745	Rydex 2G (US Borax) (Prodiamine)	Firethorn (Pyracantha sp.) P. coccinea 'Wyattii'	Field Container	Creager	MD	1980	Soil applied broadcast	No injury.
06745	Rydex 2G (US Borax) (Prodiamine)	Firethorn (Pyracantha sp.) P. koidzumii	Field Container	Currey	FL	1978	Over the top	No injury; excellent control of crabgrass, goosegrass, yellow hawkbeard, oxalis, bittercress, alligatorweed (Eclipta), phyllanthus and spurge with 4 lb ai per acre.
05268	Rydex 2G (US Borax) (Prodiamine)	Forsythia (Forsythia sp.)	Field In-Ground	Bing	NY	1978	Over the top	No injury.
05268	Rydex 2G (US Borax) (Prodiamine)	Forsythia (Forsythia sp.)	Field In-Ground	Smith	OH	1978	Broadcast	No significant injury.
05268	Rydex 2G (US Borax) (Prodiamine)	Forsythia (Forsythia sp.)	Field In-Ground	Talbert	AR	1979	Soil applied broadcast	Slight injury; great control of signalgrass and pigweed.
05268	Rydex 2G (US Borax) (Prodiamine)	Forsythia (Forsythia sp.) F. intermedia	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
26412	Rydex 2G (US Borax) (Prodiamine)	Forsythia (Forsythia sp.) F. intermedia	Field Container	Fretz	OH	1978	Broadcast	Slight but transient phytotoxicity; excellent control of crabgrass, pigweed, lambsquarter and pigweed.
06866	Rydex 2G (US Borax) (Prodiamine)	Gardenia (Gardenia sp.)	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06866	Rydex 2G (US Borax) (Prodiamine)	Gardenia (Gardenia sp.)	Field Container	Phatak	GA	1978	Over the top	Very slight to slight injury increasing with rate.
06866	Rydex 2G (US Borax) (Prodiamine)	Gardenia (Gardenia sp.) G. jasminoides	Field Container	Currey	FL	1980		No injury; excellent control of Dactyloctenium, Digitaria, Oxalis, Cardamine, Linaria, Cyperus, Phyllanthus and Grasses.
26410	Rydex 2G (US Borax) (Prodiamine)	Heather (Calluna sp.)	Field Container	Bing	NY	1978	Over the top	No injury.
07373	Rydex 2G (US Borax) (Prodiamine)	Hemlock, Eastern (Tsuga canadensis) tsuga hemlock	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
06468	Rydex 2G (US Borax) (Prodiamine)	Holly (Ilex sp.)	Field Container	Currey	FL	1979		No injury; excellent control of Euphorbiaceae, Oxalis, Digitaria, Cardamine, Eclipta, Phyllanthus, Ludwigia, and Chamaesyce.
05262	Rydex 2G (US Borax) (Prodiamine)	Holly (Ilex sp.) holly	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
06468	Rydex 2G (US Borax) (Prodiamine)	Holly (Ilex sp.) Holly Ilex	Field Container	Bing	NY	1978	Over the top	No significant injury.
06468	Rydex 2G (US Borax) (Prodiamine)	Holly (Ilex sp.) I. cornuta	Field Container	Glaze	GA	1977		No apparent injury.
06468	Rydex 2G (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata	Field Container	Glaze	GA	1977		No significant injury.
06468	Rydex 2G (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata	Field Container	Glaze	GA	1978	Over the top	Slight injury increasing with rate.
06468	Rydex 2G (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06468	Rydex 2G (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata compacta	Field Container	Glaze	GA	1977	Soil applied broadcast	No significant injury.
06468	Rydex 2G (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata 'Compacta'	Field Container	Currey	FL	1978	Over the top	No injury; excellent control of crabgrass, goosegrass, yellow hawksbeard, oxalis, bittercress, alligatorweed (Eclipta), phyllanthus and spurge with 4 lb ai per acre.
06468	Rydex 2G (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata 'convexa'	Field Container	Creager	MD	1979	Broadcast	No significant injury.
06468	Rydex 2G (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata 'convexa'	Field Container	Creager	MD	1980	Soil applied broadcast	No significant injury.
05262	Rydex 2G (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata 'convexa'	Field In-Ground	Frank	MD	1979	Soil applied broadcast	No injury; good weed control.
05262	Rydex 2G (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata 'Convexa'	Field In-Ground	Frank	MD	1980	Soil applied broadcast	No injury; good weed control.
05262	Rydex 2G (US Borax) (Prodiamine)	Holly (Ilex sp.) I. crenata 'Convexa'	Field In-Ground	Frank	MD	1981	Soil applied broadcast	No injury; poor weed control.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
06468	Rydex 2G (US Borax) (Proflaminate)	Holly (Ilex sp.) I. crenata helleryi	Field Container	Bing	NY	1978	Over the top	No significant injury; some reduction in weed number, but no mention of weed species.
06468	Rydex 2G (US Borax) (Proflaminate)	Holly (Ilex sp.) I. crenata 'Howardi'	Field Container	Ryan	WA	1979	Soil applied broadcast	No significant injury; excellent control of barnyardgrass and bittercress.
06468	Rydex 2G (US Borax) (Proflaminate)	Holly (Ilex sp.) I. crenata microphylla	Field Container	Bing	NY	1979	Soil applied broadcast	No significant injury; some control of oxalis and prostrate spurge.
09334	Rydex 2G (US Borax) (Proflaminate)	Honeysuckle (Lonicera sp.) L. tatarica	Field Container	Fretz	OH	1978	Broadcast	No injury; excellent control of crabgrass, rough pigweed, foxtail, and lambsquarter.
05263	Rydex 2G (US Borax) (Proflaminate)	Ivy, English (Hedera helix)	Field In-Ground	Bing	NY	1978	Over the top	Farmingdale: No significant injury.
07368	Rydex 2G (US Borax) (Proflaminate)	Ivy, English (Hedera helix)	Field Container	Bing	NY	1978	Over the top	No injury.
05263	Rydex 2G (US Borax) (Proflaminate)	Ivy, English (Hedera helix)	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
07368	Rydex 2G (US Borax) (Proflaminate)	Ivy, English (Hedera helix)	Field Container	Bing	NY	1979	Soil applied broadcast	No significant injury; some control of oxalis and prostrate spurge.
07368	Rydex 2G (US Borax) (Proflaminate)	Ivy, English (Hedera helix)	Field Container	Currey	FL	1978	Over the top	No injury; excellent control of crabgrass, goosegrass, yellow hawkbeard, oxalis, bittercress, alligatorweed (Eclipta), phyllanthus and spurge with 4 lb ai per acre.
05263	Rydex 2G (US Borax) (Proflaminate)	Ivy, English (Hedera helix)	Field In-Ground	Talbert	AR	1979	Over the top	No significant injury; excellent signalgrass and great evening primrose control.
05263	Rydex 2G (US Borax) (Proflaminate)	Ivy, English (Hedera helix) H. helix	Field In-Ground	Bing	NY	1978	Over the top	Riverhead: No significant injury.
06872	Rydex 2G (US Borax) (Proflaminate)	Japanese Mock Orange (Pittosporum tobira)	Field Container	Currey	FL	1979		No injury; excellent control of Euphorbiaceae, Oxalis, Digitaria, Cardamine, Eclipta, Phyllanthus, Ludwigia, and Chamasyce.
06872	Rydex 2G (US Borax) (Proflaminate)	Japanese Mock Orange (Pittosporum tobira)	Field Container	Glaze	GA	1977	Over the top	Significant injury.
06872	Rydex 2G (US Borax) (Proflaminate)	Japanese Mock Orange (Pittosporum tobira)	Field Container	Glaze	GA	1977	Soil applied broadcast	No significant injury.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
06872	Rydex 2G (US Borax) (Prodiamine)	Japanese Mock Orange (Pittosporum tobira)	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06872	Rydex 2G (US Borax) (Prodiamine)	Japanese Mock Orange (Pittosporum tobira)	Field Container	Phatak	GA	1978	Over the top	Slight to moderate injury increasing with rate.
06872	Rydex 2G (US Borax) (Prodiamine)	Japanese Mock Orange (Pittosporum tobira) 'Variegata'	Field Container	Currey	FL	1978	Over the top	No injury; excellent control of crabgrass, goosegrass, yellow hawksbeard, oxalis, bittercress, alligatorweed (Eclipta), phyllanthus and spurge with 4 lb ai per acre.
09722	Rydex 2G (US Borax) (Prodiamine)	Japanese Pachysandra (Pachysandra terminalis) P. terminalis	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
04495	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.)	Field Container	Currey	FL	1979		No injury; excellent control of Euphorbiaceae, Oxalis, Digitalia, Cardamine, Eclipta, Phyllanthus, Ludwigia, and Chamaesyce.
04495	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.)	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
04495	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.)	Field Container	Phatak	GA	1978	Over the top	Slight injury increasing with rate.
06459	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.)	Field In-Ground	Talbert	AR	1979	Soil applied broadcast	No injury; good control of pigweed and mediocre control of signalgrass and goosegrass.
04495	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. chinensis 'Pfitzeriana'	Field Container	Currey	FL	1978	Over the top	No injury; excellent control of crabgrass, goosegrass, yellow hawksbeard, oxalis, bittercress, alligatorweed (Eclipta), phyllanthus and spurge with 4 lb ai per acre.
04495	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. horizontalis 'Bar Harbor'	Field Container	Bing	NY	1979	Soil applied broadcast	No significant injury; some control of oxalis and prostrate spurge.
04495	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. horizontalis plumosa	Field Container	Bing	NY	1978	Over the top	No significant injury; some reduction in weed number but no species recorded.
04495	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. horizontalis plumosa	Field Container	Creager	MD	1979	Broadcast	No significant injury.
04495	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. horizontalis plumosa	Field Container	Creager	MD	1980	Soil applied broadcast	No significant injury.
04495	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. horizontalis plumosa	Field Container	Fretz	OH	1978	Broadcast	No significant injury; excellent crabgrass, pigweed, lambsquarter, and foxtail.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
06459	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. horizontalis 'Plumosa'	Field In-Ground	Frank	MD	1979	Soil applied broadcast	No injury; good weed control.
06459	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. horizontalis 'Plumosa'	Field In-Ground	Frank	MD	1980	Soil applied broadcast	No injury; good weed control.
06459	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. horizontalis 'Plumosa'	Field In-Ground	Frank	MD	1981	Soil applied broadcast	No injury; poor weed control.
04495	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. horizontalis plumosa compacta	Field Container	Glaze	GA	1977		No significant injury.
06459	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.) J. horizontalis plumosus compacta	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
06459	Rydex 2G (US Borax) (Prodiamine)	Juniper (Juniperus sp.) juniper	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
06896	Rydex 2G (US Borax) (Prodiamine)	Lilyturf, Big Blue (Liriope muscari)	Field Container	Glaze	GA	1977		No apparent injury.
06896	Rydex 2G (US Borax) (Prodiamine)	Lilyturf, Big Blue (Liriope muscari)	Field Container	Phatak	GA	1978	Over the top	Slight to moderate injury increasing with rate (2, 4, 8, and 16 lb ai per acre).
06896	Rydex 2G (US Borax) (Prodiamine)	Lilyturf, Big Blue (Liriope muscari) L. spicata	Field Container	Currey	FL	1979		No injury; excellent control of Euphorbiaceae, Oxalis, Digitaria, Cardamine, Eclipta, Phyllanthus, Ludwigia, and Chamasyce.
06896	Rydex 2G (US Borax) (Prodiamine)	Lilyturf, Big Blue (Liriope muscari) liriope	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06896	Rydex 2G (US Borax) (Prodiamine)	Lilyturf, Big Blue (Liriope muscari) P. tobira	Field Container	Glaze	GA	1977	Soil applied broadcast	No significant injury.
06460	Rydex 2G (US Borax) (Prodiamine)	Maple (Acer sp.)	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
06460	Rydex 2G (US Borax) (Prodiamine)	Maple (Acer sp.) A. platanoides	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
06458	Rydex 2G (US Borax) (Prodiamine)	Oak (Quercus sp.) Q. rubra	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
06870	Rydex 2G (US Borax) (Prodiamine)	Pampas Grass (Cortaderia sp.)	Field Container	Glaze	GA	1977		Significant injury at all rates.
06870	Rydex 2G (US Borax) (Prodiamine)	Pampas Grass (Cortaderia sp.)	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06870	Rydex 2G (US Borax) (Prodiamine)	Pampas Grass (Cortaderia sp.)	Field Container	Phatak	GA	1978	Over the top	Minor to moderate injury increasing with rate.
06870	Rydex 2G (US Borax) (Prodiamine)	Pampas Grass (Cortaderia sp.) C. japonica	Field Container	Glaze	GA	1977	Soil applied broadcast	Moderate injury to death, increasing with rate.
06870	Rydex 2G (US Borax) (Prodiamine)	Pampas Grass (Cortaderia sp.) C. selloana	Field Container	Currey	FL	1979		No injury; excellent control of Euphorbiaceae, Oxalis, Digitaria, Cardamine, Eclipta, Phyllanthus, Ludwigia, and Chamasyce.
26419	Rydex 2G (US Borax) (Prodiamine)	Periwinkle (Vinca sp.) pyrocantha	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
06867	Rydex 2G (US Borax) (Prodiamine)	Pine (Pinus sp.)	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
05256	Rydex 2G (US Borax) (Prodiamine)	Pine (Pinus sp.) P. strobus	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
05256	Rydex 2G (US Borax) (Prodiamine)	Pine (Pinus sp.) P. strobus	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
05256	Rydex 2G (US Borax) (Prodiamine)	Pine (Pinus sp.) P. thunbergii	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
05256	Rydex 2G (US Borax) (Prodiamine)	Pine (Pinus sp.) P. thunbergii	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
06868	Rydex 2G (US Borax) (Prodiamine)	Privet (Ligustrum sp.)	Field Container	Currey	FL	1979		No injury; excellent control of Euphorbiaceae, Oxalis, Digitaria, Cardamine, Eclipta, Phyllanthus, Ludwigia, and Chamaesyce.
06868	Rydex 2G (US Borax) (Prodiamine)	Privet (Ligustrum sp.)	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06868	Rydex 2G (US Borax) (Prodiamine)	Privet (Ligustrum sp.)	Field Container	Phatak	GA	1978	Over the top	None to slight injury increasing with rate

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
05247	Rydex 2G (US Borax) (Prodiamine)	Privet (Ligustrum sp.)	Field In-Ground	Smith	OH	1978		No injury.
06868	Rydex 2G (US Borax) (Prodiamine)	Privet (Ligustrum sp.) L. japonicum	Field Container	Currey	FL	1978	Over the top	No injury; excellent control of crabgrass, goosegrass, yellow hawkbeard, oxalis, bittercress, alligatorweed (Eclipta), phyllanthus and spurge with 4 lb ai per acre.
06868	Rydex 2G (US Borax) (Prodiamine)	Privet (Ligustrum sp.) L. lucidum	Field Container	Creager	MD	1979	Broadcast	No significant injury.
06868	Rydex 2G (US Borax) (Prodiamine)	Privet (Ligustrum sp.) L. lucidum	Field Container	Creager	MD	1980	Broadcast	No significant injury.
05247	Rydex 2G (US Borax) (Prodiamine)	Privet (Ligustrum sp.) L. ovalifolium	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
05247	Rydex 2G (US Borax) (Prodiamine)	Privet (Ligustrum sp.) privet	Field In-Ground	Bing	NY	1978	Over the top	No injury.
07366	Rydex 2G (US Borax) (Prodiamine)	Rhododendron (Rhododendron sp.)	Field Container	Bing	NY	1979	Soil applied broadcast	No significant injury; some control of oxalis and prostrate spurge.
07366	Rydex 2G (US Borax) (Prodiamine)	Rhododendron (Rhododendron sp.) 'Hincrimson'	Field Container	Creager	MD	1979	Broadcast	Slight transient injury.
07366	Rydex 2G (US Borax) (Prodiamine)	Rhododendron (Rhododendron sp.) R. roseum elegans	Field Container	Bing	NY	1978		Some injury, but undescribed.
07366	Rydex 2G (US Borax) (Prodiamine)	Rhododendron (Rhododendron sp.) R. roseum elegans	Field Container	Bing	NY	1978	Over the top	No significant injury; reduction in weed number but no species recorded.
11802	Rydex 2G (US Borax) (Prodiamine)	Rose (Rosa sp.)	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
00327	Rydex 2G (US Borax) (Prodiamine)	Russian Olive (Elaeagnus angustifolia)	Field Container	Currey	FL	1979		No injury; excellent control of Euphorbiaceae, Ooxalis, Digitaria, Youngia, Cardamine, Eclipta, Phyllanthus, Ludwigia, and Chamaesyce.
00327	Rydex 2G (US Borax) (Prodiamine)	Russian Olive (Elaeagnus angustifolia) E. pungens 'Fruitlandi'	Field Container	Currey	FL	1978	Over the top	No injury; excellent control of crabgrass, goosegrass, yellow hawkbeard, oxalis, bittercress, alligatorweed (Eclipta), phyllanthus and spurge with 4 lb ai per acre.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
07382	Rydex 2G (US Borax) (Prodiamine)	Sacred Bamboo (Nandina domestica)	Field Container	Currey	FL	1979		No injury; excellent control of Euphorbiaceae, Oxalis, Digitaria, Cardamine, Eclipta, Phyllanthus, Ludwigia, and Chamasyce.
06865	Rydex 2G (US Borax) (Prodiamine)	Sakaki, Cleyera (Cleyera japonica)	Field Container	Currey	FL	1979		No injury; excellent control of Dactyloctenium, Digitaria, Oxalis, Cardamine, Linaria, Cyperus, Phyllanthus, and Grasses
06865	Rydex 2G (US Borax) (Prodiamine)	Sakaki, Cleyera (Cleyera japonica)	Field Container	Glaze	GA	1977		No significant injury.
06865	Rydex 2G (US Borax) (Prodiamine)	Sakaki, Cleyera (Cleyera japonica)	Field Container	Glaze	GA	1977	Soil applied broadcast	Some injury, but some check plants also had injury.
06865	Rydex 2G (US Borax) (Prodiamine)	Sakaki, Cleyera (Cleyera japonica)	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06865	Rydex 2G (US Borax) (Prodiamine)	Sakaki, Cleyera (Cleyera japonica)	Field Container	Phatak	GA	1978	Over the top	Very slight to slight injury increasing with rate.
26409	Rydex 2G (US Borax) (Prodiamine)	Sourwood, Sorrel Tree (Oxydendrum arboreum)	Field Container	Bing	NY	1978	Over the top	No significant injury
06463	Rydex 2G (US Borax) (Prodiamine)	Spindletree (Euonymus sp.)	Field In-Ground	Smith	OH	1978		Slight injury with one rep at the 12 lb per acre rate.
06463	Rydex 2G (US Borax) (Prodiamine)	Spindletree (Euonymus sp.)	Field In-Ground	Talbert	AR	1979	Soil applied broadcast	No injury; good control of pigweed and carpetweed, poor control of goosegrass and signalgrass.
06463	Rydex 2G (US Borax) (Prodiamine)	Spindletree (Euonymus sp.) E. fortunei	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
07369	Rydex 2G (US Borax) (Prodiamine)	Spindletree (Euonymus sp.) E. fortunei 'coloratus'	Field Container	Creager	MD	1979	Broadcast	No significant injury.
07369	Rydex 2G (US Borax) (Prodiamine)	Spindletree (Euonymus sp.) E. fortunei 'coloratus'	Field Container	Creager	MD	1980	Soil applied broadcast	No significant injury.
07369	Rydex 2G (US Borax) (Prodiamine)	Spindletree (Euonymus sp.) E. fortunei 'Emerald Cushion'	Field Container	Ryan	WA	1979	Soil applied broadcast	No significant injury; excellent control of barnyardgrass and bittercress.
06463	Rydex 2G (US Borax) (Prodiamine)	Spindletree (Euonymus sp.) E. fortunei radicans	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
06463	Rydex 2G (US Borax) (Prodiamine)	Spindletree (Euonymus sp.) E. fortunei radicans	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
07369	Rydex 2G (US Borax) (Prodiamine)	Spindletree (Euonymus sp.) E. fortunei variegata	Field Container	Bing	NY	1979	Soil applied broadcast	No significant injury; some control of oxalis and prostrate spurge.
07369	Rydex 2G (US Borax) (Prodiamine)	Spindletree (Euonymus sp.) eunymous	Field Container	Bing	NY	1978	Over the top	No significant injury.
26422	Rydex 2G (US Borax) (Prodiamine)	Spruce (Picea sp.)	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
26421	Rydex 2G (US Borax) (Prodiamine)	Stonecrop (Sedum sp.) rose	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
09725	Rydex 2G (US Borax) (Prodiamine)	Weigela (Weigela sp.) W. florida	Field Container	Fretz	OH	1978	Broadcast	No significant injury; excellent control of crabgrass, rough pigweed, foxtail and lambsquarter.
06456	Rydex 2G (US Borax) (Prodiamine)	Yew (Taxus sp.)	Field In-Ground	Bing	NY	1978	Over the top	No significant injury.
06456	Rydex 2G (US Borax) (Prodiamine)	Yew (Taxus sp.) T. cuspidata 'Hicksii'	Field In-Ground	Bing	NY	1979	Soil applied broadcast	No significant injury.
06456	Rydex 2G (US Borax) (Prodiamine)	Yew (Taxus sp.) T. media 'Hicksii'	Field In-Ground	Frank	MD	1979	Soil applied broadcast	No injury; good weed control.
06456	Rydex 2G (US Borax) (Prodiamine)	Yew (Taxus sp.) T. media 'Hicksii'	Field In-Ground	Frank	MD	1980	Soil applied broadcast	No injury; good weed control.
06456	Rydex 2G (US Borax) (Prodiamine)	Yew (Taxus sp.) T. media 'Hicksii'	Field In-Ground	Frank	MD	1981	Soil applied broadcast	No injury; poor weed control.
06873	Rydex 2G (US Borax) (Prodiamine)	Yew Plum Pine (Podocarpus macrophyllus)	Field Container	Currey	FL	1979		No injury; excellent control of Euphorbiaceae, Oxalis, Digitaria, Cardamine, Eclipta, Phyllanthus, Ludwigia, and Chamasyce.
06873	Rydex 2G (US Borax) (Prodiamine)	Yew Plum Pine (Podocarpus macrophyllus)	Field Container	Glaze	GA	1979	Over the top	No injury after single application; after second application injury observed at 8 and 16 lb ai per acre.
06873	Rydex 2G (US Borax) (Prodiamine)	Yew Plum Pine (Podocarpus macrophyllus)	Field Container	Phatak	GA	1978	Over the top	Slight injury increasing with rate (2, 4, 8, and 16 lb ai per acre).

PR#	Product (Active Ingredients)	Crop	Production Site	Researcher	State	Year	Application Type	Results
06873	Rydex 2G (US Borax) (Prodiamine)	Yew Plum Pine (Podocarpus macrophyllus) P. macrophyllus 'Maki'	Field Container	Currey	FL	1978	Over the top	No injury; excellent control of crabgrass, goosegrass, yellow hawksbeard, oxalis, bittercress, alligatorweed (Eclipta), phyllanthus and spurge with 4 lb ai per acre.

Label Suggestions

It is suggested that the following 36 genera or species exhibiting no injury in these experiments be added to the wettable dry granular formulations of prodiamine such as Barricade 65WG, Cavalkade WDG, or RegalKade 65WDG.

<i>Acer saccharum</i>	<i>Lobelia erinus</i>
<i>Agastache rupestris</i>	<i>Oenothera fruticosa</i>
<i>Ageratum houstonianum</i>	<i>Oenothera pallida</i>
<i>Aristida stricta</i>	<i>Onoclea sensibilis</i>
<i>Aspidistra elatior</i>	<i>Origanum libanoticum</i>
<i>Brassica oleracea</i>	<i>Osmunda regalis</i>
<i>Buddleia alternifolia</i>	<i>Pieris compacta</i>
<i>Centaurea gymnocarpa</i>	<i>Polystichum polyblepharum</i>
<i>Cornus alernifolia</i>	<i>Quercus borealis</i>
<i>Cotoneaster glacophylla</i>	<i>Rhamnus smithii</i>
<i>Dendranthemum sp.</i>	<i>Ruscus hypophyllum</i>
<i>Diascia intergerrima</i>	<i>Salvia daghestanica</i>
<i>Digitalis sp.</i>	<i>Sedum spectabile</i>
<i>Dryopteris x australis</i>	<i>Spirea japonica</i>
<i>Euonymus macrophylla</i>	<i>Tagetes sp.</i>
<i>Hosta undulate</i>	<i>Trachelospermum jasminoides</i>
<i>Lantana sp.</i>	<i>Viola x wittrockiana</i>
<i>Leucanthemum maximum</i>	<i>Zauschneria californica</i>

IR-4 has very limited data for following list of 25 plants. However, if other available data demonstrate no or minimal transient injury for these crops, IR-4 supports placing these on the prodiamine WDG labels also.

<i>Amsonia hubrichtii</i>	<i>Delosperma (Delosperma sp.)</i>
<i>Antirrhinum majus</i>	<i>Dryopteris erythrosora</i>
<i>Asclepias sp.</i>	<i>Erigeron karvinskianus</i>
<i>Asparagus virgatus</i>	<i>Eryngium planum</i>
<i>Athyrium filix-femina</i>	<i>Geum sp.</i>
<i>Athyrium nipponicum</i>	<i>Goniolimon tataricum</i>
<i>Aubrieta deltoidea</i>	<i>Liatris sp.</i>
<i>Aurinia saxatilis</i>	<i>Matteuccia struthiopteris</i>
<i>Cerastium tomentosum</i>	<i>Pelargonium x hortorum</i>
<i>Chrysalidocarpus lutescens</i>	<i>Phoenix roebelinii</i>
<i>Colchicum sp.</i>	<i>Polystichum acrostichoides</i>
<i>Cyrtomium fortunei</i>	<i>Salvia x sylvestris</i>
<i>Cytisus purgans</i>	<i>Washingtonia robusta</i>

It is suggested that the following genera or species be moved to the all states including CA section. Those with asterisks have some data generated in CA or in conditions similar to CA.

Achillea millefolium *
Aquilegia sp.
Artemisia lactiflora *
Begonia sp.
Buddleia davidii
Gypsophila elegans *
Hemerocallis sp.

Hosta fortunei *
Lilium sp.
Liriope spicata
Perovskia atriplicifolia
Veronica repens
Viburnum lantana

It is suggested that the following 11 genera or species exhibiting no injury in these experiments be added to the granular formulations of prodiamine such as RegalKade G.

Ajuga reptans
Cyrtomium fortunei
Dryopteris x australis
Dryopteris erythrosora
Elaeagnus angustifolia
Pachysandra terminalis
Pelargonium sp.
Polystichum acrostichoides
Polystichum polyblepharum
Salvia splendens
Tagetes sp.

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