

# DIRECTORY

## Herbicide Directory

Herbicide	Brand Name(s)	Company	Uses
amitrole	Amitrole-T	Union Carbide	Non-selective grass and broadleaf control in non-crop areas including ditches, roadsides, industrial areas and marshes.
asulam	Asulox	Rhone Poulenc	Postemergence grassy weed control for turf and ornamentals
atrazine	atrazine	Ciba Geigy	Non-selective control in non-crop areas.
benefin	Balan	Elanco	Preemergence control of annual grasses and broadleaf weeds in established turf.
bensulide	Betasan Pre-San Lescosan Betamec-4	Stauffer Mallinckrodt Lesco PBI Gordon	Preemergence control of annual grasses and broadleaf weeds in established turf and established flower gardens. Safe near tulip and daffodil bulbs.
bentazon	Basagran	BASF	Selective postemergence control of nutsedge in warm-season turf.
bromacil	Hyvar	du Pont	Nonselective control of weeds and grasses in non-crop areas. Usually mixed with diuron for roadsides and rights-of-way.
bromoxynil	Brominal Buctril	Union Carbide Rhone Poulenc	Postemergence control of broadleaf weeds in seedling turf, established turf and non-crop areas.
cacodylic acid	Phytar Rad-E-Cate	Vertac Vineland	Nonselective control for turf renovation, edging and in plant beds.
chloramben	Amiben	Union Carbide	Preemergence control in ornamentals.
chlorfurecol	Maintain	Uniroyal	Growth regulator. Also controls broadleaf weeds and vines.
copper	Citrine-Plus	Applied Biochemists	Controls algae, chara and hydrilla in potable water.
dalapon	Dalapon 85 Dowpon M	SDS Biotech Dow	Selective control of perennial and annual grasses in non-crop areas and ditchbanks.
dazomet	Mylone	Hopkins Ag.	Preplant sterilant for turf and ornamental beds.

# DIRECTORY

## Herbicide Directory *continued*

Herbicide	Brand Name(s)	Company	Uses
DCPA	Dacthal	SDS Biotech	Preemergence control of annual grasses and broadleaf weeds in turf and ornamental beds.
dicamba	Banvel	Velsicol	Selective postemergence control of broadleaf weeds in turf and for noncrop control of brush.
dichlobenil	Dyclomec Casoron	PBI Gordon Thompson-Hayward	Selective weed control in ornamental beds and for total weed control on roadsides, fencerows, etc.
dichlorprop	2,4-DP	SDS Biotech	Brush control and aquatic weed control.
diphenamid	Enide	TUCO, Upjohn	Selective control of annual grasses and broadleaf weeds in bermudagrass, dichondra and around ornamentals.

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# DIRECTORY

## Herbicide Directory *continued*

DSMA	Methar 30 Ansar DSMA Liquid DSMA 81% Weed-E-Rad	W.A. Cleary SDS Biotech Drexel Vertac Vineland	Selective postemergence control of sedges and grasses in turf and ditchbanks and storage yard.
diuron	Karmex Dynex Diuron 80WP Urox	du Pont Vertac Drexel Hopkins	Generally used at high rates for nonselective total weed control in industrial sites.
diquat	Diquat	Ortho, Chevron	Aquatic weed control.
endothall	Aquathol K Endothall	Pennwalt Pennwalt	Aquatic weed control and turf herbicide and desiccant.
EPTC	Eptam	Stauffer	Selective control of annual grassy weeds, nutgrass, and perennial weeds.
Ethofumesate	Prograss	Nor-Am	For control of <i>Poa annua</i> and white clover in fairways.

## What makes a Cushman turf vehicle worth the investment:

Turn your crew's walking time into working time.  
It's the fastest way to increase productivity.

If you stop to figure how much time your crew spends every week —just walking—you'd probably be shocked.

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light lets the work continue into the night.

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CUT4-2045

fenac	Fenac	Union Carbide	Preemergence long-term control of weeds, usually mixed with other herbicides.
fosamine	Krenite	du Pont	Brush control.
fluazifop-butyl	Fusilade	ICI Americas	Selective postemergence control of grassy weeds in ornamentals.
glyphosate	Roundup	Monsanto	Nonselective, short-term herbicide for turf renovation and total weed control along fences and plant beds.
imidazoline	Arsenal	American Cyanamid	Broad spectrum systemic industrial herbicide.
linuron	Lorox	du Pont	Short-term control of annual weeds in roadsides and fence rows.
mefluidide	Embark	3M	Growth regulator that suppresses <i>Poa annua</i> .
methyl bromide	Dowfume	Dow	Fumigant for pre-plant control. Also kills weed seed.



# CUSHMAN®

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*It works harder because it's built better.*



# DIRECTORY

## Herbicide Directory *continued*

Herbicide	Brand Name(s)	Company	Uses
metham	Vapam	Stauffer	Preplant soil fumigant killing weeds, weed seed, insects and fungi.
metribuzen	Sencor	MoBay	Postemergence control of goosegrass in warm-season turf.
MCPP	MCPP Mecomec MCPP Chipco Turf Herbicide	SDS Biotech PBI Gordon WA Cleary Rhone Poulenc	Selective broadleaf weed control in turf. Often combined with other herbicides.
MSMA	Ansar Broadside Ansar Weed-Hoe	SDS Biotech Vertac Drexel Vineland	Postemergence selective control of crabgrass and broadleaf weeds in turf. Also, grassy weed control in ditchbanks, roadsides, industrial areas.
napropamide	Devrinol	Stauffer	Selective control of weeds in ornamental beds and containers. Experimental combination with Betasan for season-long crabgrass control in turf.
oryzalin	Surflan	Elanco	Preemergence control of weeds in established ornamentals.
oxadiazon	Ronstar	Rhone Poulenc	Preemergence control of weeds in ornamentals and turf.
oxyfluofen	Goal	Rohm & Haas	Selective control of weeds in ornamentals.
paraquat	Paraquat	Ortho, Chevron	Nonselective control of weeds in rights-of-way, industrial areas and fence rows.
pichloram	Tordon	Dow	Systemic, long-term killer of woody plants and broadleaf weeds.
prometon	Pramitol	Ciba Geigy	Nonselective herbicide with long residual for industrial weed control.
pronamide	Kerb	Rohm & Haas	Poa annua control in warm-season grasses. Also weed and grass control around woody ornamentals and Christmas trees.
sethoxydim	Poast	BASF	Postemergence control of grassy weeds around broadleaf ornamentals.
siduron	Tupersan	du Pont	Preemergence control of annual grasses in newly seeded turf areas.

*continued on page 86*

# DIRECTORY

## Herbicide Directory *continued*

Herbicide	Brand Name(s)	Company	Uses
simazine	Princep	Ciba Geigy	Selective control of annual grasses and broadleaf weeds in established bermudagrass. Also, used in industrial and aquatic weed control.
sulfometuron	Oust	du Pont	Non-selective industrial and selective in bermudagrass
tebuthiuron	Spike	Elanco	Total vegetation control in non-crop areas
trifluralin	Treflan	Elanco	Selective preemergence weed control in established ornamentals.
trichlopyr	Garlon	Dow	Systemic control of woody plants in rights-of-way and industrial sites. Current experiment use pending for selective turf weed control.
2, 4-D	2, 4-D	Dow, SDS Biotech, Rhone Poulenc, Vertac	Selective control of weeds in turf and numerous other areas. Usually mixed with other herbicides.
Vorlex	Vorlex	Nor-Am	Preplant fumigant Broadleaf weed control in established turf.

## Herbicide Combinations

Active Ingredients	Brand Name	Company	Uses
2, 4-D plus MCPP	Chipco Turf Kleen Cleary Scotts II SDS Tee Time Lescopar	Rhone Poulenc WA Cleary OM Scott SDS Biotech Andersons LESCO	Broadleaf weed control in established turf.
2, 4-D plus dicamba	Scotts I Banvel Plus Lesco Selective Herbicide	OM Scott Velsicol Lesco	Selective postemergence control of weeds in turf.
2, 4-D plus MCPP plus dicamba	Trimec Trexan	PBI Gordon Mallinckrodt	Selective, broad spectrum control of weeds in turf.
2, 4-D plus dichlorprop	Weedone DPC	Union Carbide	Selective postemergence control of weeds in turf.
2, 4-D plus 2, 4-D plus dicamba	Trimec Ester	Bulkem	Selective, broad spectrum control of weeds in turf.
2, 4-D plus dicamba plus dalapon	Banvel Plus	Velsicol	Broad spectrum, post-emergence turf weed control.



## Herbicide Combinations *continued*

2, 4-D plus prometon	Vegemec	PBI Gordon	Selective postemergence control of weeds in turf.
Balan plus Ronstar	Regalstar	Regal Chem.	Broad spectrum preemergence control of weeds in turf.
amitrol plus simazine	Amizine	Union Carbide	Season-long control of weeds and grasses around ornamentals.
MSMA plus cacodylic acid	Broadside	Crystal	Nonselective, broad spectrum weed control.
diuron plus sodium chlorate plus sodium metaborate	Chlorea	Rhone Poulenc	Nonselective weed and grass killer.
amitrole plus fenac plus atrazine	Fenamime	Union Carbide	Pre- and postemergence control of weeds for industrial sites and rights-of-way.
bromacil plus diuron	Rout Krovar	Hopkins du Pont	Wide range control of weeds in industrial sites and rights-of-way.
MSMA plus dicamba	Mondak	Velsicol	Noncropland general weed control.
prometon, simazine and chlorate	Pramitol	Ciba Geigy	Full-season weed control in industrial sites.

Nitrogen costs money. So does water for that matter. And bluegrasses need them both.

Well, most bluegrasses.

Tests have shown that Rugby tolerates heat and drought better than most bluegrass cultivars. Rugby held its medium dark-green color and overall vigor on restricted moisture conditions. That makes *less watering* highly feasible.

A similar result happened in tests measuring the

# The Way Some Bluegrasses You Wonder What



TABLE 1.  
Woody plants tolerant to pre-emergence herbicides

The following evergreen and deciduous plants are labeled for use with the pre-emergence herbicides across the top of the chart. An (X) in the column indicates the herbicide can be safely used for that plant listed. The list includes only those plants with company label registration.

	BETASAN	CASORON	DACTHAL	DEVIRINOL	ENIDE	EPTAM	FURLOE CHLORO IPC	ORNAMENTAL WEEDER	PRINCEP	RONSTAR	SURFLAN	TREFLAN
<b>Narrowleaf Evergreens</b>												
Arborvitae	X	X	X	X	X		X	X	X	X	X	X
Chamaecyparis					X	X						
Eastern Red Cedar	X		X	X					X			X
Fir		X	X		X	X						
Fir, Balsam							X			X		X
Fir, Douglas				X					X	X		X
Fir, Fraser									X			
Hemlock			X	X	X	X	X	X	X	X		X
Juniper	X	X	X	X	X	X	X	X	X	X	X	X
Pine			X	X		X	X	X		X		
Pine, Austrian									X	X		X
Pine, Japanese Black									X	X	X	
Pine, Mugo									X		X	
Pine, Red									X			X
Pine, Scotch									X	X		X
Pine, White									X	X	X	X
Spruce			X	X		X	X			X		
Spruce, Blue											X	X
Spruce, Norway										X	X	X
Spruce, White										X		X
Yew	X	X	X	X	X	X	X	X	X	X	X	X
<b>Broadleaf Evergreens</b>												
Boxwood	X	X	X	X		X					X	X
Cherry Laurel					X							X
Euonymus			X	X			X	X			X	X
Firethorn	X	X	X	X					X	X	X	X
Holly	X	X	X	X	X					X	X	X
Holly, Japanese						X					X	X
Japanese Pieris		X				X		X			X	X
Leucothoe		X				X					X	X
Magnolia grandifolia											X	X
Mahonia					X		X		X	X	X	X
Mountain Laurel	X	X		X			X				X	X
Rhododendron	X	X	X	X	X	X	X	X			X	X

continued

need for nitrogen. Rugby scored well at low to moderate nitrogen fertility levels. And maintained good turf quality and density under no-nitrogen conditions.

In short, Rugby needs *some* nitrogen, but it doesn't need to wallow in it. So you can spend your time and money where it does more good.

But not on extra fungicide. Rugby resists Fusarium blight, leaf spot, dollar spot, stem rust, and powdery mildew.

Rugby also offers you the benefits of a low growth habit. And only the *blades* grow vertically. So mowers clip the leaf ends only, not the crucial growth-sustaining lower stems.

With Rugby, you can have rich, dense Kentucky bluegrass. For less nitrogen. Less water. And less time.

That's nothing to snort at.



Circle No. 161 on Reader Inquiry Card

# Devour Nitrogen, You're Raising.





# DIRECTORY

TABLE 1.

Woody plants tolerant to pre-emergence herbicides

	BETASAN	CASORON	DACTHAL	DEVIRINOL	ENIDE	EPTAM	FURLOE CHLORO IPC	ORNAMENTAL WEEDER	PRINCEP	RONSTAR	SURFLAN	TREFLAN
<b>Deciduous Trees</b>												
Ash		X	X	X	X					X		
Ash, White					X			X				X
Bald Cypress					X							X
Beech					X							
Birch	X	X		X			X			X		
Birch, European												X
Chinese Chestnut			X		X							X
Corktree, Amur	X											
Crabapple	X	X	X	X					X	X		X
Dogwood	X	X		X	X		X	X	X	X		X
Dogwood, Kousa												X
Elm	X	X										
Elm, American								X				
Elm, Siberian								X				
Ginkgo										X	X	
Goldenchaintree	X			X								
Goldenraintree	X										X	
Hackberry	X											
Hawthorn			X	X								
Honeylocust				X					X			X
Linden	X					X						
London Planetree												X

	BETASAN	CASORON	DACTHAL	DEVIRINOL	ENIDE	EPTAM	FURLOE CHLORO IPC	ORNAMENTAL WEEDER	PRINCEP	RONSTAR	SURFLAN	TREFLAN
Magnolia		X	X			X	X	X		X		
Maple		X	X	X	X	X	X					
Maple, Amur											X	
Maple, Norway												X
Maple, Red								X				X
Maple, Silver												X
Maple, Sugar					X							X
Mountain Ash	X											
Oak	X	X			X	X				X		
Oak, Pin												X
Oak, Red								X	X	X		X
Oak, Scarlet												X
Poplar	X	X	X		X		X					
Redbud			X		X							X
Russian Olive	X	X			X				X	X		
Sassafras								X				
Sweetgum			X		X						X	X
Sycamore			X		X							X
Tuliptree			X		X							X
Tupelo												X
Walnut	X	X	X		X							X
Willow	X	X			X							X

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# DIRECTORY

TABLE 2. Ground covers tolerant to pre-emergence herbicides

	BETASAN	DACTHAL	DEVRIROL	ENIDE	EPTAM	ORNAMENTAL WEEDER	PRINCEP	RONSTAR	SURFLAN	TREFLAN
<b>Ground covers</b>										
Ajuga	X		X		X			X		
Boston Ivy		X								
Cotoneaster		X		X		X	X	X	X	X
English Ivy	X	X	X	X	X	X		X	X	
Euonymus		X		X		X		X	X	X
Honeysuckle		X		X						X
Juniper	X	X		X		X	X	X	X	X
Liriope			X						X	
Myrtle	X		X	X	X			X	X	
Pachistima		X								
Pachysandra	X		X		X			X		
Potentilla										X
Sedum	X				X			X		
Stoncrop									X	
St. John's Wort	X		X	X	X					

TABLE 3. Deciduous shrubs tolerant to pre-emergence herbicides

	BETASAN	CASORON	DACTHAL	DEVRIROL	ENIDE	EPTAM	FURLOE CHLORO IPC	ORNAMENTAL WEEDER	PRINCEP	RONSTAR	SURFLAN	TREFLAN
<b>Deciduous Shrubs</b>												
Abelia	X		X	X								X
Azalea	X	X	X	X	X	X		X		X	X	X
Azalea, Mollis		X										
Barberry		X	X		X	X	X		X	X	X	X
Beautybush		X			X							
Cinquefoil												X
Cotoneaster		X	X		X			X	X	X	X	X
Currant			X		X							
Deutzia		X										X
Dogwood, Red Osier										X		
Euonymus, Winged		X	X	X	X	X				X	X	X
Flowering Almond		X										
Flowering Quince		X										
Forsythia		X	X		X		X			X	X	X
Hibiscus				X	X							X
Honeysuckle		X	X		X		X		X	X	X	X

## What makes Ryan® big aerators worth the investment:

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Chances are, your turf is slowly choking to death.

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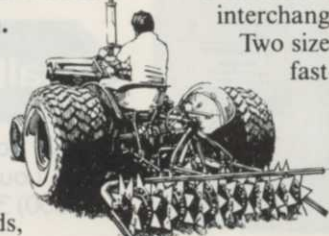
And every time your soil is walked on, or dried out by hot weather, it gets harder for the grass to breathe.

And for new grass to take root.

### Ryan has the solution.

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## Herbicide Manufacturers

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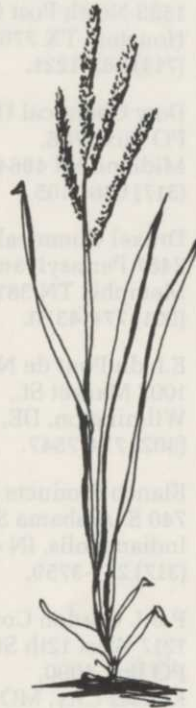
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	BETASAN	CASORON	DACTHAL	DEVRIKOL	ENIDE	EPTAM	FURLOE CHLORO IPC	ORNAMENTAL WEEDER	PRINCEP	RONSTAR	SURFLAN	TREFLAN
<i>Continued</i>												
Hydrangea		X			X		X					
Hypericum			X	X								
Lilac	X	X	X	X	X	X	X			X	X	X
Mockorange	X	X		X			X				X	
Mockorange, Lemoine												X
Nandina	X		X					X				
Peashrub	X											
Photinia	X		X								X	
Privet	X	X	X	X	X	X	X			X	X	X
Rose	X	X	X	X	X	X	X	X		X	X	X
Spirea	X	X		X			X	X				
Spirea, Vanhoutte												X
Viburnum			X		X	X	X	X		X		X
Viburnum, Doublefile											X	
Wiegela	X	X		X								



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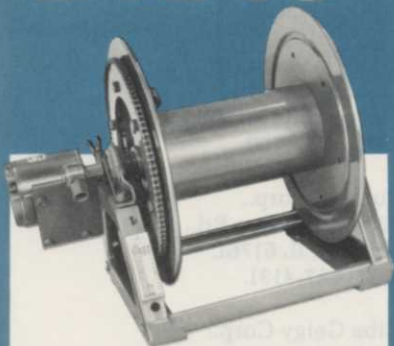
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