

BUNTON CUTS THE COST OF CUTTING*



BUNTON
COMMERCIAL MOWERS

* The new Buntton 61-inch self-propelled mower cuts the same width as a comparable riding mower, but costs about half as much.

61 in.

Or ... Buy two Bunttons and cut twice as much grass for about the cost of one comparable riding mower.

122 in.

This new Buntton self-propelled mower is the latest step forward in our constant advance in the design and building of more productive, cost efficient equipment. It is a 16 horsepower, gasoline powered turf mower with excellent maneuverability, fingertip steering and controls, six forward ground speeds and independent blade speed.

Please write or call for additional information.

Buntton builds 'em better.
BUNTON CO.

P.O. Box 33247
Louisville, KY 40232 U.S.A.
Phone 502/966-0550 • Telex 204-340

Contract numbers:
G.S.A.: GS-07S-07659
H.U.D.: OPH (CO)m-3650

Oftanol

5% Granular insecticide

OFTANOL 5%
Granular insecticide

FOR COMMERCIAL
APPLICATOR USE
ONLY.

for insect control
on turf grasses.

ACTIVE INGREDIENTS
Thiamethoxam 5% (0.0005% active ingredient)

INERT INGREDIENTS

U.S. Patent No. 5,311,082
Canadian Patent No. 1,282,588
U.S. Pat. 5,152,641
U.S. Pat. No. 5,152,641

Keep out of reach of children.

CAUTION

See Back Panel for Statement of Practical Treatment
and Other Precautionary Statements.

NET WEIGHT 40 POUNDS



Möbius Chemical Corporation
Agricultural Chemicals Division
P.O. Box 10000, St. Louis, MO 63108

LONG-LASTING OFTANOL HITS GRUBS WHERE THEY LIVE

Grubs. There is one product and only one product that stops them so completely for so long. ®OFTANOL turf insecticide.

It works.

OFTANOL provides the longest and most cost effective grub control available.

It works so well for so long because its low water solubility helps it resist leaching to keep it in the upper soil profile. Where the grubs feed.

OFTANOL comes in two formulations: OFTANOL 5% Granular and OFTANOL 2 in-

secticide, a liquid. Use recommended rates and follow label directions.

OFTANOL turf insecticide. It hits grubs where they live and then they're dead. See your turf chemicals distributor.



I TELL YA
I'VE TOLERATED A
LOT OF STUFF IN MY TIME
BUT I'M DEAD
AGAINST THIS.

AND THEN THEY'RE DEAD.

OFTANOL STOPS THEM COLD.

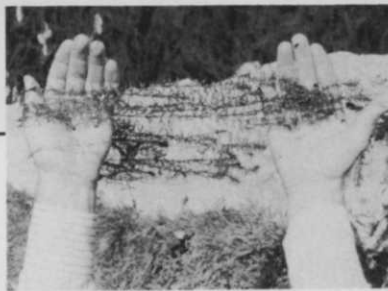
Applications of OFTANOL, properly timed, will control existing populations of sod webworm larvae, billbug larvae, chinch bugs, and Hyperodes weevil larvae. It works.



Mobay Chemical Corporation
Specialty Products Group
Box 4913, Kansas City, MO 64120

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AQUATIC



Mechanical aquatic weed harvester.



water. A pond aerator or recirculator can be used to mix the layers of water together, keeping temperatures down and adding oxygen to the water.

Plants produce oxygen needed for a healthy lake. Decaying plants or effluent rob water of valuable oxygen. Do not throw grass clippings into lakes. If possible, remove dead plants after chemical treatments.

In certain states, various weed-eating fish are legal. These and other fish feed on lake vegetation. They are restricted from certain states for fear they might reach major rivers and lakes.

Drawdown, or lowering the water level to expose aquatic weeds to full sun or freezing temperatures is used where fish or irrigation uses are not important. Dredging can also be tried to remove plants and deepen lakes. Mechanical weed harvesters are available for purchase or rent. They cut the bottom-rooted weeds below the surface for removal.

Remember, once you decide to use chemical controls, you must protect the desired aquatic plants. Also trees with roots extending into lakes may be effected by aquatic herbicides. Preventative measures should be tried before resorting to a chemical program.

Curative control

In certain areas it is impossible to defeat all the conditions favoring aquatic weeds. In warm climates, landscape managers fight a constant battle with aquatic weeds.

In cooler climates, summer provides better conditions for aquatic weeds and seasonal control may be needed.

Algae If preventative measures aren't enough to stop algae, then copper compounds (Cutrine) are effective. Used at correct rates, these compounds do not restrict water use for swimming, irrigation, watering stock or fish farming.

If the lake has a history of algae problems, start using copper compounds as soon as water temperatures reach 60 degrees F. Periodic retreatment may be necessary for season-long control.

Copper compounds are often mixed with other aquatic herbicides for control of a variety of weeds.

Floating weeds Floating weeds are either free-floating or bottom-rooted plants which have leaves that float on the water's surface. They include hyacinths, duckweed, water lettuce, floating fern, water pennywort, and salvinia.

The primary herbicides for floating weeds are 2,4-D and Diquat.

Submersed weeds Weeds which are bottom-rooted and totally under water are called submersed. They include hydrilla, pondweed, watermilfoil, and coontail.

The primary herbicides for submersed weeds are 2,4-D, endo-thall (Aquathol K), Diquat and combinations of Diquat and endo-thall with copper.

Emerged weeds These are weeds growing in shallow areas with stems and leaves above the water surface. They include cattails, duckweed, hyacinths, alligatorweed, torpedograss and arrowhead.

Primary herbicides for these are Banvel, 2,4-D, dalapon (Dowpon), diuron (Karmex) and amitrole.

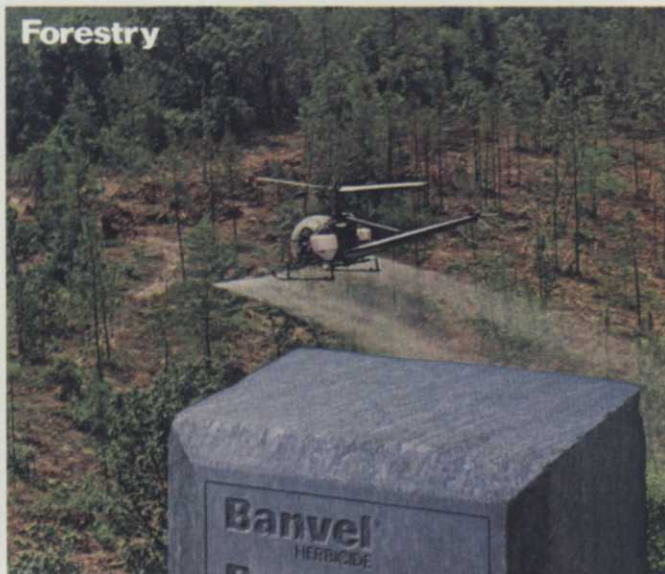
Ditchbank weeds Emergent weeds and grasses are often problems on ditchbanks. Use herbicides listed for emergent weed. If the ditches are dry, glyphosate (Roundup) may be used. Caution should be taken to keep the glyphosate away from nearby bodies of water.

Herbicide precautions

Use of water following applications of aquatic herbicides may be restricted. Generally, copper compounds cause no delay in use. Wait 24 hours before swimming and seven days before irrigation when using endo-thall. Diquat requires certain delays up to ten days and should not be used in muddy water. Always check product labels for delays and precautions.

Proper calculation of the amount of herbicide is important. Rates are based on acre square feet. To calculate this figure you need to know both the area of the lake surface and the depth. Measurements should be taken rather than estimating. Multiply the area of the surface in acres by the average depth in feet. Your chemical supplier or extension agent can help you if you are uncertain of your calculations.

WT&T



Build the best vegetation control programs on a cornerstone of Banvel® herbicide products.

When you choose Banvel® herbicide products for vegetation management on roadsides, utilities, railroads, ditchbanks or in timber management, you . . .

- Leave native grasses intact.
- Get cost-effective results.
- Spray materials that are environmentally sound when used as directed.
- Control the broadest spectrum of broadleaf weed and brush species.
- Choose from a wide variety of approved tank-mix options.

Talk to your Velsicol representative and find out why Banvel herbicide products are the best way to build vegetation management programs that fit all your needs.



Banvel® herbicide products.
Your cornerstone of vegetation management



Banvel® is a registered trademark of Velsicol Chemical Corporation. Read and follow label directions carefully.

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.

BEFORE

Before and after treatment for control of hydrilla with AQUATHOL® K Aquatic Herbicide.



AFTER

Get results like this with Pennwalt Aquatic Herbicides

Pennwalt products control many troublesome weeds and algae, in-

cluding hydrilla, coontail, milfoil and pondweeds.

Biodegradable

All Pennwalt aquatic herbicides are based on endothal. Endothal salts disappear rapidly from the water and soil through microbial degradation and do not accumulate in the food web. Prop-

erly applied, Pennwalt aquatic herbicides provide a satisfactory margin of safety to birds, mammals, and aquatic fauna. And Aquathol formulations have a wide margin of safety to fish.

Contact Action

Pennwalt aquatic herbicides kill weeds by contact. For best results, they should be applied as soon as the aquatic weed

problem appears and weeds are actively growing.



Flexible Application

The application of Pennwalt aquatic herbicides can be fast, precise and economical. Application of liquid or granular formulations may be made by

air, by boat or from the shore to treat small or large areas of lakes, ponds, rivers and canals.

Complete Line

The Pennwalt line of aquatic herbicides and algicides: an effective way to get rid of weeds and algae.

AQUATHOL® K Aquatic Herbicide
AQUATHOL® Granular Aquatic Herbicide
HYDROTHOL® 191 Aquatic Algicide and Herbicide
HYDROTHOL® 191 Granular Aquatic Algicide and Herbicide.

All pesticides can be harmful. Read label carefully and use only as directed.

AGCHEM
PENNWALT
CHEMICALS ■ EQUIPMENT
HEALTH PRODUCTS

Pennwalt Corporation, Three Parkway, Philadelphia, PA 19102 • (215) 587-7219

ADV 8437/4-83/6958

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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.

IT'S TIME TO STRAIGHTEN OUT THE BENTGRASS!

PROMINENT

Creeping bentgrass

If you have been looking for a variety of Creeping Bentgrass that is available, tried and tested and found to be superior in test results...turn to PROMINENT Creeping Bentgrass.

In Illinois tests, PROMINENT out-performed other top varieties of Creeping Bent in fairway tests during the hot summertime. Plots were monitored for turfgrass quality, thatch buildup and disease resistance.

In tests in Ohio and Kentucky, PROMINENT out-performed all other bentgrass varieties tested in withstanding heat and drought conditions. For better performance under stress conditions... turn to PROMINENT CREEPING BENTGRASS.

- EXCELLENT UNIFORMITY • GOOD COLOR
- QUICK TO ESTABLISH • DISEASE RESISTANT
- BETTER HOT WEATHER TOLERANCE

SEED RESEARCH
OF OREGON, INC.

29730 Harvest Dr. • Albany, Oregon 97321
(503) 757-2663

Change spray tips clean strainers in seconds... without tools!

New
QuickJet
system



Model QJ 1/4 TT
For Wet Booms

QJ100 Series
For Dry Booms

QJ200 Series
For Dry Booms

New QuickJet System minimizes your service time and helps assure accurate delivery. The self-aligning quick "on/off" cap can be used with all interchangeable spray tips. The caps are available in 8 colors for color-coding different tip sizes. **QUICKJETS SAVE TIME AND MONEY.**

Send for QuickJet bulletin and data sheets.



Spraying Systems Co.

Wheaton, IL 60188 Telephone 312/665-5000

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Circle No. 167 on Reader Inquiry Card

WEEDONE® DPC controls tough turf weeds.

Weedone® DPC

TURF HERBICIDE

Now you can get the weed-killing power of 2, 4-D and dichloroprop in one easy-to-use broadleaf herbicide. New WEEDONE® DPC turf herbicide from Union Carbide.

This broad-spectrum, post-emergent herbicide controls not only the common weeds such as dandelion and plantain, but tough weeds such as ground ivy, oxalis, spurge and chickweed; over 65 species in all.

In fact, WEEDONE DPC delivers performance equal to that of more expensive three-way mixes, and it has excellent tolerance to most grass species.

Ask for WEEDONE DPC turf herbicide. It's another quality product from Union Carbide.



UNION CARBIDE AGRICULTURAL PRODUCTS COMPANY, INC.
P.O. Box 12014, T.W. Alexander Drive, Research Triangle Park, NC 27709
WEEDONE is a registered trademark of Union Carbide. As with any herbicide, always read and follow label instructions.

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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.

You'd also understand the economics of taking your crew off their feet and putting them into one of our tough turf vehicles.

Take the Cushman Runabout®, for instance. It carries two workers and up to a half ton of fertilizer, sand, sod or supplies.

The Runabout's 18-hp engine features a 4-stroke cycle for extra torque and longer life (a 12-hp model is also available).

For smaller needs, and budgets, consider the Cushman Turfcart™. It too can transport a pair of workers at up to 14 mph. And there's cargo space for rakes, hose, trimmers or up to 250 pounds of other supplies. The sturdy 7-hp engine can run all day on just a little gas. And a sealed-beam head-

light lets the work continue into the night.

A free demonstration.

Of course the best way for you to learn about the Cushman Runabout and Turfcart is to see them in action. Right on your own grounds.

To do that, contact your Cushman dealer or call toll free **1-800-228-4444**.

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