

## Adjuvants

### Aqua Fixx 216

Wetting Agent

Aqua fix 216 is a surface active agent that helps water move into the upper area of the profile to aid turf growth, especially where water movement has been reduced during drought or localized dry spot. If water cannot penetrate and wet the soil, the availability for uptake by plants is reduced. The result is plant stress or the inability of seeds to germinate.

Rate: 2-16 ounces per 1,000 square feet

Available in: 2.5 gal jug



### Aqua Fixx DG

Wetting Agent

Aqua Fixx DG granular soil wetting agent helps improve problematic soil in dry areas that won't wet, areas where water pools on the surface without penetrating into the soil matrix, and high traffic areas where the soil is heavily compacted.

Rate: 2-3 pounds per 1,000 square feet

Available in: 50 lb. bag



### Chameleon

Adjuvant

Chameleon is a non-ionic surfactant with UV technology, pH buffer, compatibility agent, anti-foam, and anti-drift. Chameleon improves herbicide performance by adhering chemical to the plant surface, improving penetration and extending performance with UV technology.

Rate: 8 ounces per acre with herbicides

1-3 pints per 100 gallons of water

Available in: 2.5 gal jug



### Meth-N-Oil

Adjuvant

Meth-N-Oil is a patent-pending adjuvant developed primarily to increase the penetration of systemic post-emergent herbicides; it also offers good spreading characteristics for herbicide coverage during adverse weather conditions.

Rate: 2-4 quarts per 100 gallons

Available in: 1 gal jug



### Transfilm

Adjuvant

Prevents moisture loss through the leaves by transpiration; for trees, shrubs, and turf. Provides the best protection available from winter desiccation, windburn, sun-scald and salt air damage; reduces plant water requirements during drought conditions.

Rate: 1-2 quarts per 100 gallons

2.5 gallons per acre

Available in: 2.5 gal jug



Always check product labels for specific rates.

## Fungicides

### Clearscape T&O

T&O Fungicide

Clearscape has DMI fungicide technology that controls disease by an inhibiting process related to fungal biosynthesis, which disrupts target pathogen growth. This product provides rapid plant uptake, preventative and curative control, low use rates, application flexibility and delayed resistance development. Clearscape controls anthracnose, dollar spot, brown patch, pink and gray snow mold, gray leaf spot, and many other diseases in turf. It controls southern blight, leaf spot, anthracnose, cab and powdery mildew in ornamentals.

Rate: 0.6 ounces per 1,000 square feet  
Available in: 1 gal jug



### Echo 6F ETQ

T&O Fungicide

Echo 6F ETQ Innovative technology enhances turf quality, while providing protection for more than 75 diseases. Echo 6F ETQ combines proven, economical fungicide with novel pigment for excellent results and value.

Rate: 2-5.5 ounces per 1,000 square feet  
Available in: 2.5 gal jug



### Echo 720 T&O

T&O Fungicide

Echo 720 is a proven, long-residual contact fungicide that protects turf and ornamentals from more than 75 different diseases. This product is ideal for use with newer fungicides to manage their resistance and broaden their disease control spectrum.

Rate: 2-5.5 ounces per 1,000 square feet  
Available in: 2.5 gal jug



### Iprodione 2SE SPC

T&O Fungicide

Iprodione Pro 2SE fungicide provides tremendous value in the fight against foliar and soil-borne disease in commercial greenhouses and nurseries. It prevents key leaf spot diseases, botrytis blight, cylindrocladium blight and wilt, and rhizoctonia and root rot.

Rate: 2-8 ounces per 1,000 square feet  
Available in: 2.5 gal jug



### PCNB Turfcide 400

T&O Fungicide

Prevent soil borne diseases in turf and labeled ornamentals. Turfcide is an excellent solution for control of persistent diseases of turf — from snow mold and brown patch to leaf spot and dollar spot. Preventative applications may be made in spring and fall. Applied as a soil treatment, Turfcide also provides protection against a variety of soil borne diseases in greenhouse, shade house, nursery, landscape and field grown ornamentals as well as in interiorscapes.

Rate: 5-24 ounces per 1,000 square feet  
Available in: 2.5 gal jug



Always check product labels for specific rates.



## Fungicides

### Pegasus DF

T&O Fungicide

Pegasus HPX is the most advanced formulation of Chlorothalonil. Pegasus provides superior control, longevity, tank-mix options, and performance. Controls and prevents dollar spot, brown patch, anthracnose, red thread gray snow mold, and leaf spot.

5-8.8 ounces on turf  
Available in: 5 lb. jug



### Peregrine/TM/C

T&O Fungicide

The combination of 50% Chlorothalonil with 16.6% Thiophanate Methyl provides long-lasting all purpose fungicide control with both contact and systemic modes of action against brown patch, dollar spot, gray leaf spot, anthracnose, summer patch, fusarium blight, powdery mildew, leaf spot, blights, stem, crown, and root rot.

Rate: 8.25-16 pounds per acre  
Available in: 5 lb. jug



### Phyte-Off

Plant Nutrient

Phyte-Off is a foliar fertilizer that helps manage summer stress syndrome by improving plant's stress tolerance and recovery. Phyte-Off is an ideal supplement to a well-balanced fertilizer program, and can be used as a stand-alone nutrient or tank-mixed with fungicides.

Rate: 1-3 ounces per 1,000 square feet  
Available in: 2.5 gal jug



### Propiconazole 14.3/ Kestrel Mex

T&O Fungicide

Propiconazole controls 49 turf and ornamental diseases including pink and gray snow molds, rust, gray leaf spot, dollar spot, summer patch, anthracnose, powdery mildew, and many more.

Rate: 22-88 ounces per acre  
.5-4 ounces per 1,000 square feet  
Available in:  
1 quart/1 gal/2.5 gal/7.5 gal jug



### ProPlant

T&O Fungicide

ProPlant prevents and cures many Pythium diseases, including damping off, cottony blight, grease spot, and root rot on turfgrass and ornamental plants. It is highly systemic for quick absorption and translocation, with multi-site mode of action that prevents resistance problems. ProPlant can be applied following germination or to established turf.

Rate: 2-3 ounces per 1,000 square feet  
1.3-4 ounces per 1,000 square feet  
Available in: 1 gal jug



Always check product labels for specific rates.



## Fungicides

### Shaw's Fungicide with Bayleton

T&O Fungicide

Shaw's Bayleton/Fungicide contained 1.0% Bayleton on a corn cob granule. This allows for easier application with the homeowner type spreaders. Bayleton is absorbed rapidly and works systemically from within the plant. Rainfall or sprinkler irrigation soon after application will assure rapid systemic uptake. Because of the broad spectrum of diseases controlled with both preventative and curative rates of Shaw's Bayleton/Fungicide homeowner product satisfaction will be higher.

Rate: 0.75-3 lbs. per 1,000 square feet  
Available in: 30 lb. bag



### T-Bird 85 WDG

T&O Fungicide

T-Bird is a systemic broad spectrum, preventative disease fungicide that provides low cost preventative protection against brown patch, dollar spot, gray leaf spot, anthracnose, summer patch, fusarium blight, powdery mildew, leaf spot, blight, stem, crown, and root rot. Since application rates vary considerably depending on disease pressure and mode of application see label for directions.

Rate: 1.2-3.53 ounces per 1,000 square feet  
Available in: 5 lb. jug



### T-Methyl 4.5F SPC/Granular SPC

T&O Fungicide

Preventive, curative, superlative disease control, T-Methyl 4.5F Fungicide offers it all. It protects a broad spectrum of crops against a wide range of diseases with effective, systemic disease control, which is why thiophanate-methyl is one of the most widely used fungicides in the world. T-Methyl 4.5 F effectively protects new growth from a broad spectrum of diseases including white mold, powdery mildew, rusts, brown spot, brown rot, Fusarium and Rhizoctonia root rot.

Rate: 1.75-3.5 pounds per 1,000 square feet  
Available in: 30 lb. bag



## Growth Regulators

### CutDown

T&O Growth Regulator

CutDown contains Paclobutrazol - a systemic growth regulator for turf grass and trees. It works by inhibiting gibberellin biosynthesis (elongation of cells). CutDown slows vertical growth of grass and reduces mowing for up to 8 weeks after application. The frequency of mowing can be reduced by up to 50% during the period of effective retardation.

Rate: Greens .1-.25 ounces per 1,000 square feet  
Fairways .25-.5 ounces per 1,000 square feet  
Available in: 1 gal jug



### Goldwing

T&O Growth Regulator

Goldwing is used to manage turf growth, improve quality and reduce stress in warm and cool season grasses. Goldwing suppresses the growth of bentgrass, Kentucky bluegrass, ryegrass, fescue, and most other grasses. It improves color, lateral stems and root mass development while inhibiting vertical shoot growth thus reducing the number of cuttings per month by half. Applications of Goldwing produce healthier turf, durable blades, and reduced seasonal stress.

Rate: Greens .125 ounces per 1,000 square feet  
Fairways .25 ounces per 1,000 square feet  
Available in: 1 gal/7.5 gal jug



Always check product labels for specific rates.



## Pre-Emergent Herbicides

### Prodiamine 65 WDG

Crabgrass Control

Prodiamine 65 WDG - Broad Spectrum Pre-Emergent Herbicide is an excellent weed control product, especially as a pre-emergent herbicide and as a grass and broadleaf weed killer. Flexible application allows for both spring and fall use providing season long crabgrass and broadleaf weed control. Effectively controls annual bluegrass.

Rate: 0.75-1 pound per acre

Available in: 5 lb. jug



### Quincept

Broadleaf & Crabgrass Control

Versatile post-emergent control of both grassy and broadleaf weeds. Produces fast visual control of crabgrass, foxtail, barnyard grass, and many broadleaf weeds. Quincept contains Quinclorac, 2,4-D, and Dicamba. Add Chameleon to increase performance.

Rate: 2.6-2.9 ounces per 1,000 square feet

7-8 pints per acre

Available in: 64 oz./2.5 gal jug



### Tupersan

Crabgrass Control

Tupersan is safe to apply when seeding a new lawn without causing injury to germinating seedlings of most cool-season grasses. Active ingredient is Siduron. May be applied through the hydro-seeder or with a conventional spray tank.

Rate: 4-12 pounds per acre

Available in: 4 lb. bag



## Post-Emergent Herbicides

### 4-Speed XT

4-way Broadleaf Herbicide

4-Speed XT is a post-emergent herbicide which delivers powerful weed control-faster. With its high-powered combination of four active ingredients, 4-Speed XT makes fast work of even the toughest weed control challenges. The combination of Pyraflufen, Triclopyr, 2,4-D, and Dicamba controls hundreds of broadleaf weeds in turf, including difficult species like oxalis, wild violet, spurge, and many more. Add Chameleon to increase performance at low volume

Rate: 0.67-1.5 ounces per 1,000 square feet

3-4 pints per acre

Available in: 1 gal/2.5 gal jug



### Millennium Ultra II

Broadleaf Herbicide

For use on commercial turf, golf courses, and sod fields - not approved for residential lawns. Millennium Ultra II is a herbicide for effective control of broadleaf weeds especially; clover, wild parsnip, knotweed, oxalis, cocklebur, plantain, chickweed, thistle, dandelion, and many more. Millennium Ultra II contains 2,4-D, Clopyralid, and Dicamba.

Add Chameleon to increase performance at low volume rates

Rate: 0.75-1.1 ounces per 1,000 square feet

2-3 pints per acre

Available in: 2.5 gal jug



Always check product labels for specific rates.



## Post-Emergent Herbicides

### Quinclorac/Star/Eject 75 DF

Crabgrass Control

Controls annual grasses including large and smooth crabgrass, green, yellow and giant foxtail, and barnyard grass. Also works on broadleaf weeds such as clover, dandelion, morning glory, and wild violet. This may be added to Triplet SF for improved broadleaf control. Add Meth-N-Oil for increased results.

Rate: 0.367 ounces per 1,000 square feet

1 pound per acre

Available in: 1 lb. jug



### Triclopyr 4

Broadleaf Herbicide

For control of woody plants, annual and perennial broadleaf weeds in forests, grass pastures and rangeland. Also in non-crop areas, industrial sites and non-irrigation ditch banks.

Rate: 2-8 quarts per acre

Available in: 2.5 gal jug



### Triplet SF

Broadleaf Herbicide

Triplet SF is a concentrated, three-way Amine formulation of 2,4-D, MCPP, and Dicamba. It controls dandelions, knotweed, clover, chickweed, spurge, and most annual and perennial broadleaf weeds. Add Chameleon to increase performance at low volume rates.

Rate: 1.2-1.5 fluid ounces per acre

3¼-4 pints per acre

Available in: 2.5 gal jug/30 gal drum



## Specialty Herbicides

### Barrier Herbicide 4G

Specialty Weed Control

A residual barrier herbicide for landscape ornamentals, road ways, parks, around buildings, hedges, trees, fence lines, and sports grounds. Season-long control of annual and perennial grasses and broadleaf weeds with one application.

Rate: 2.3-4.6 pounds per 1,000 square feet

100-200 pounds per acre

Available in: 50 lb. bag



### Certainty

Specialty Weed Control

Certainty is a selective herbicide for control of annual and perennial grass and broadleaf weeds in highly managed Kentucky bluegrass and popular native grass stands. Certainty also controls yellow nutsedge, johnsongrass, white clover, chickweed, and many more.

Rate: 0.5 ounces per acre

Available in: 1.25 oz. package



Always check product labels for specific rates.



# Specialty Herbicides

## GlyphoMate 41

Specialty Weed Control (Roundup for water)

Weed & Grass killer plus Aquatic Herbicide.

A unique formulation containing 41% glyphosate and a surfactant.

GlyphoMate 41 is labeled for most aquatic sites plus landscaping plantings, turf renovation, nurseries, roadsides, farmsteads, orchard floors, fallow land and many other approved uses. This product allows you to buy one product instead of two.

Rate: 4.2-10.6 pints per acre  
Available in: 1 gal jug



## Glyphosate/Honcho T&O

Specialty Weed Control (Roundup)

Powerful and effective Honcho controls and eliminates a wide array of tough grasses and weeds. Honcho is a non-selective, broad-spectrum weed control for many agricultural systems and farmsteads. It is a post emergent, systemic herbicide with no soil residual activity. Honcho is generally non-selective and gives broad-spectrum control of many annual weeds, perennial weeds, woody brush, and trees. It is formulated as a water-soluble liquid. Visible effects of Honcho are a gradual wilting and yellowing of the plant which are typically visible within 2 to 4 days.

Rate: 0.5-5 quarts per acre  
Available in: 2.5 gal jug



## ProDeuce/ Razor Burn

Specialty Weed Control (Roundup/Barricade)

ProDeuce is a non-selective post-emergent herbicide that controls broadleaf weeds and grasses combined with a pre-emergent for broadleaf weed and grass control. Especially effective for fence lines, driveway and sidewalk cracks and to control growth around trees.

Contains Glyphosate and Prodiamine. Prevents re-growth for 6 months or more depending on amount applied.



Razor Burn combines the fast contact activity of diquat with the systemic control of glyphosate in one high-performance liquid formulation. Razor Burn can be used in general non-crop and industrial sites, on dormant turfgrass, in turfgrass renovation areas (except for commercial sod farms), or in parks, recreational and residential areas. For the fastest burn and the quickest turn, try Nufarm Razor Burn.

Rate: 3-6 ounces per 1,000 square feet in appropriate amount of water  
Available in: 64 oz. jug



## Pronto

Specialty Weed Control (Roundup/Imazapyr)

Concentrated liquid provides total, one-year control of unwanted grasses & weeds. Pronto kills existing weeds & prevents new weeds.

Use Pronto only in areas where *no* vegetation is desired such as gravel driveways, patios, around propane tanks, and in fence rows.

Rate: 3-9 ounces per gallon  
Available in: 1 gal jug



## Snapshot

Specialty Weed Control

Snapshot is a selective pre-emergent herbicide that provides control of listed annual grasses and broadleaf weeds in landscape ornamentals, ground covers, perennials, non-bearing fruit and nut trees, container grown ornamentals, non-bearing vineyards, field-grown ornamentals and non-cropland.

Rate: 100-200 pounds per acre  
Available in: 50 lb. bag



Always check product labels for specific rates.



## Insecticides

### Firebird LCO

T&O Insecticide

Firebird LCO is a fast acting insecticide that controls numerous insects and mites on trees and turf grass. Insects controlled include armyworms, cutworms, ants, fleas, grasshoppers, leafhoppers, Japanese beetle, ticks, mites, mosquitos, and many more. Firebird LCO is a non-restricted product and can be used on lawns, landscape ornamentals and other residential areas.

Rate: 0.18-1 ounce per 1,000 square feet  
Available in: 1 gal jug



### Hawk-I 75 WSP

T&O Insecticide

Hawk-I in a liquid application form for foliar application to control major turf and ornamental pests including northern masked chafer, Japanese beetle, European chafer, European crane fly, green June beetle, cutworm, white grub larvae, aphids, leaf miners, and many more.

Rate: 1.6 ounces per 8,250 square feet  
Available in: 1.6 oz.-case of 48



### Mallet .5G

T&O Insecticide

Systemic insecticide provides residual protection of turfgrass from grubs and other turf pests as well as protecting ornamentals, trees and shrubs from sucking and piercing insects, residual activity also controls pests in the soil. It takes just one application of Mallet .5G to achieve consistent, persistent control of insects.

Rate: 1.4-1.8 pounds per 1,000 square feet  
Available in: 30 lb. bag



### Menace GC 7.9%

**Restricted Use**  
T&O Insecticide

Menace GC 7.9% starts working on contact to control insects, mosquitos and mites in both larval and adult stage, and Menace keeps pests down with proven residual control. Menace GC 7.9% can be used in greenhouses and nurseries, as well as on golf courses and on ornamental turf in landscape area.

Rate: 0.18-1 ounce per 1,000 square feet  
Available in: 1 gal jug



### Zylam 20 SG/Liquid

T&O Insecticide

A 20% a.i. soluble granule or liquid formulation of dinotefuran, a third generation neonicotinoid insecticide. Provides outstanding control of damaging turfgrass pests including both root- and leaf-feeding insects on your most troublesome turf areas.

Rate: 2.7 pounds per acre  
Available in: 32 oz./2.7 lb. jug



Always check product labels for specific rates.







