

PRODUCT INFORMATION SUPPLEMENTAL LABEL

FOR USE IN ALABAMA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, CONNECTICUT, WASHINGTON D.C., DELAWARE, FLORIDA, GEORGIA, HAWAII, IDAHO, ILLINOIS, INDIANA, IOWA, KANSAS, KENTUCKY, LOUISIANA, MAINE, MARYLAND, MASSACHUSETTS, MICHIGAN, MINNESOTA, MISSISSIPPI, MISSOURI, MONTANA, NEBRASKA, NEVADA, NEW HAMPSHIRE, NEW JERSEY, NEW MEXICO, NEW YORK, NORTH CAROLINA, NORTH DAKOTA, OHIO, OKLAHOMA, OREGON, PENNSYLVANIA, RHODE ISLAND, SOUTH CAROLINA, SOUTH DAKOTA, TENNESSEE, TEXAS, UTAH, VERMONT, VIRGINIA, WASHINGTON, WEST VIRGINIA, WISCONSIN AND WYOMING.

This label must be in the possession of the end use at the time of application.

Read the label attached to the container of QuickSilver T&O Herbicide for complete Precautionary Statements and additional directions for use.



QuickSilver[®]
T&O HERBICIDE

EPA Reg. No 279-3265

EPA Est. 279-

Active Ingredient:	By Wt.
Carfentrazone-ethyl	21.3%
Other Ingredients:	78.7%
	100.0%

This product contains 1.9 pounds active ingredient per gallon

Contains Petroleum Distillates

KEEP OUT OF REACH OF CHILDREN CAUTION

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. All applicable directions, restrictions and precautions on the EPA registered label are to be followed.

Before using QuickSilver T&O Herbicide as permitted according to this supplemental label, read and follow all applicable directions, restrictions and precautions on the label or attached to the pesticide product container. This Supplemental Labeling contains revised use instructions and/or restrictions that may be different from those that appear on the container label.

Active ingredient made in China, formulated and packaged in U.S.A.

FMC

FMC Corporation
Agricultural Products Group
Philadelphia PA 19103

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

CAUTION

Harmful if swallowed, absorbed through the skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

See other panels for additional precautionary information.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

GENERAL INFORMATION

QuickSilver T&O Herbicide is a contact herbicide with little or no residual activity that provides selective postemergence control of broadleaf weeds and silvery thread moss (*Bryum argenteum*) in turfgrass. The active ingredient of QuickSilver T&O Herbicide is carfentrazone-ethyl. It is an aryl triazolinone herbicide, which interrupts chlorophyll synthesis and produces metabolic byproducts that disrupt plant cell membranes. This process only occurs in susceptible green plants in the presence of light.

QuickSilver T&O Herbicide rapidly penetrates into the plant cells and symptoms may be apparent on foliage of susceptible weeds in 24 hours or less. Complete desiccation and death occurs within 7 to 14 days of application. QuickSilver T&O Herbicide is rainfast within one hour after application.

This product is most effective when applied to actively growing winter and summer annual seedlings. It also increases the speed of kill and expands the spectrum of control of mature and perennial broadleaf weeds (See "Weeds Controlled" section) when applied in a tank mixture with other postemergence herbicides.

Extremes in environmental conditions e.g. excessively high or low moisture or temperature may affect the activity of this product. Under warm, moist conditions appearance of herbicide symptoms may be accelerated while under very dry or cool conditions the expression of herbicidal symptoms is delayed. However, this product remains highly effective under both cool and warm environmental conditions. Weeds hardened by drought and/or extremely high temperatures are less susceptible to this product and the higher rates in the range are recommended under those conditions.

General Use Precautions

Avoid spray drift onto non-target susceptible plants such as vegetables, flowers, ornamentals, trees, shrubs and other desirable plants.

Do not apply this product to carpetgrass, dichondra, nor on lawns or turf where desirable clovers are present.

Do not apply when conditions are conducive to spray drift or poor spray coverage.

Do not apply more than 6.7 fluid ounces of product (0.10 lbs. a.i. of carfentrazone-ethyl) per acre per application or more than 0.40 lbs. a.i. of carfentrazone-ethyl per acre per season. The minimum retreatment interval for sequential broadcast applications of this product is two (2) weeks.

Do not apply this product by aerial application.

Do not apply this product through any type of irrigation system.

Turfgrass and Sites

QuickSilver T&O Herbicide is intended to be applied by lawn care operators, maintenance applicators, and service technicians for use in ornamental lawns and turfgrass, as well as stone-covered yards established in institutional, ornamental, and residential/domestic sites. Institutional sites are defined as turf areas and stone-covered yards around properties or facilities providing a service to public or private organizations including, but not limited to hospitals, nursing homes, schools, museums, libraries, sports facilities, golf courses, and office buildings. Ornamental sites include turfgrass and stone-covered yards established around residences, parks, streets, retail outlets, cemeteries, industrial buildings and institutional buildings. Residential/domestic sites are defined as areas associated with household or home life including, but not limited to apartment complexes, condominiums, and patient care areas of nursing homes, mental institutions, hospitals, or convalescent homes.

Turfgrass Tolerance

Turfgrasses tolerant to application of QuickSilver T&O Herbicide are listed below. FMC does not recommend application to turfgrasses not listed.

Cool Season Grasses (creeping bentgrass, colonial bentgrass, annual bluegrass, Kentucky bluegrass, fine fescues, red fescues, tall fescue, perennial ryegrass)

Established cool season grasses are generally tolerant to applications of QuickSilver T&O Herbicide at labeled rates. Tall fescue may exhibit a slight yellowing discoloration occurring within 3 to 5 days after application under some conditions. Recovery typically occurs within 4 to 7 days. If such injury or any injury cannot be tolerated, apply to a small test area before treating large areas to assure tolerance of the host turf species.

Be aware of and observe all label restrictions regarding turf tolerance of companion products when QuickSilver T&O Herbicide is tank mixed with another product.

Warm Season Grasses (common and hybrid bermudagrass, bahiagrass, buffalograss, centipedegrass, seashore paspalum, St. Augustine grass, zoysiagrass)

Established warm season grasses listed above are generally tolerant to applications of QuickSilver T&O Herbicide but may be susceptible to transitory yellowing when they are under stress. Stress is typically associated with but not limited to extreme high or low temperatures, Disease infection or insect infestation, extreme high or low moisture conditions, or transition into or out of dormancy.

Under such conditions injury in the form of transitory yellowing discoloration may occur within 3 to 7 days of application. If such injury or any injury cannot be tolerated, apply QuickSilver T&O Herbicide in the manner you will be using it to a small test area before treating large areas to assure tolerance of the turf.

Be aware of and observe all label restrictions regarding turfgrass tolerance of companion products when QuickSilver T&O Herbicide is tank mixed with another product.

Newly Seeded, Sodded or Sprigged Turfgrass

QuickSilver T&O Herbicide can be applied to the following species of turfgrass at 7 days or more after emergence for species established by both seeding and sprigging: hybrid bermudagrass, common bermudagrass, St. Augustine, creeping bentgrass, tall fescue, perennial ryegrass and Kentucky bluegrass. Application to zoysiagrass should be delayed until at least 14 days after emergence to avoid extended discoloration. Slight discoloration may be observed immediately after application for hybrid bermudagrass, however, normal turf color returns by 12 days after emergence if no other stresses are present. Areas treated with QuickSilver T&O Herbicide may be seeded or overseeded one day following application.

Dormant Turf

Applications to dormant warm-season grasses are permitted. Avoid applications when warm-season grasses are transitioning into or out of dormancy.

Mixing Instructions

QuickSilver T&O Herbicide is an aqueous base emulsion containing 1.9 pounds active ingredient per gallon and is intended for dilution with water.

Fill the spray tank 3/4 full with clean water or diluent. Make sure the agitation system is operating. Add the recommended amount of QuickSilver T&O Herbicide and complete filling the spray tank to the desired level. The mechanical or bypass agitation must be sufficient to ensure uniform spray mixture during application.

Tank Mix Compatibility

QuickSilver T&O Herbicide is believed to be compatible with most herbicides, fungicides, insecticides, growth regulators, liquid fertilizers and spray adjuvants commonly used in turf and lawn care management. Liquid fertilizers may also be used along with water as part of the diluent. However, when preparing a new tank mix, always conduct a physical compatibility test by mixing proportional amounts of all spray ingredients in a test vessel (jar). Shake the mixture vigorously and allow it to stand for five to ten minutes. Rapid precipitation of the ingredients and failure to re-suspend when shaken indicates that the mixture is incompatible and should not be applied. To evaluate the biological compatibility of a mixture being used for the first time, spray a small area and observe for control and phytotoxicity symptoms for several days before applying to large areas.

Read and observe mixing instructions of all tank mix partners. Also read each product's label for Directions for Use, Precautionary Statements and Restrictions and Limitations. The most restrictive labeling applies in all tank mixtures. No label dosage rate should be exceeded. Tank mixture recommendations are for use only in states where the companion products and application site are registered. In addition, certain states or geographical regions may have established dosage rate limitations. Consult your state Pesticide Control Agency for additional information regarding the maximum use rates.

When tank mixing QuickSilver T&O Herbicide with other products always add the other products as specified on their label. Ensure the compatibility of other products with this product before mixing them in the tank.

Maintain the pH of the spray solution in the range of pH 5 to 8. Use buffers as necessary. Spray solution in the range of pH 6 to 7 is optimal.

Application Directions

Spray coverage

QuickSilver T&O Herbicide is a contact herbicide with little or no residual activity. It produces herbicidal symptoms only in the portions of the target weeds with which it comes into direct contact. Therefore, to achieve maximum effectiveness of this product, select a spray volume and nozzle system that ensures thorough and uniform coverage and at the same time minimizes the spray fines. Spray droplets larger than 400 microns may reduce coverage and result in loss of weed control. Applications should be made using spray volumes of 20-175 gallons per acre (0.5 to 4.0 gallons per 1000 sq.ft.). Use higher spray volumes when there is a dense weed population or turfgrass canopy or where uniform coverage is difficult to obtain.

Spot Treatments (Applications with hand operated sprayers such as backpack sprayers, compression sprayers, knapsack sprayers)

For spot treating weeds, other than moss, with hand-held or backpack sprayers mix 0.030 fluid ounces (0.9 milliliters) of this product in one to two gallons of water to treat 1000 square feet. Refer to Category 2 in the Weeds Controlled section to determine the appropriate rates for control of silvery thread moss. To avoid overdosing when using a hand-held wand, use a flat fan nozzle and maintain the nozzle at a uniform recommended height over the canopy. Avoid back-and-forth and side-to-side motion with the wand. Hold the wand stationary and move forward at a uniform pace over the area to be treated.

Use of Adjuvants

Addition of surface active agents (surfactants) or other adjuvants may improve effectiveness of QuickSilver T&O Herbicide against weeds with difficult-to-wet leaf surfaces or weeds that are mature or hardened by harsh environmental conditions. Adjuvant materials may also reduce the selectivity to some turfgrass varieties and increase the potential for turf injury. Follow all adjuvant manufacturer use guidelines and also read and observe all companion product label statements, precautions and restrictions regarding use of adjuvants when QuickSilver T&O Herbicide is used in tank mixtures with other products.

Sprayer Clean-Out

Residues left in mixing equipment, spray tanks, hoses, spray booms and nozzles can cause non-target plant effects if they are not properly cleaned. Because QuickSilver T&O Herbicide can be highly phytotoxic to sensitive ornamental plants it is strongly recommended that only equipment that is dedicated exclusively to turf and lawn herbicides be used in the application of QuickSilver T&O Herbicide.

If not using a dedicated sprayer, observe the following cleanout procedures:

1. Drain spray tank, hoses, and boom and thoroughly wash the inside of the sprayer tank free of visible sediment and residues. Thoroughly flush tank, sprayer hoses, boom, and nozzles.
2. Fill the tank with clean water, and add 1 gallon of ammonia (containing at least 3% active) for every 100 gallons of water. Fill the tank to capacity and operate the sprayer for 15 minutes to flush hoses, boom and nozzles. Let the solution stand in the hoses, tank, boom and nozzles for several hours or overnight.

- Drain the sprayer system. Rinse the tank with clean water and flush through the hoses and boom. Repeat the clean water rinse and flush. Remove and clean nozzles and screens in an ammonia solution separately.

Do not apply sprayer cleaning solutions or rinsate to any lawns, ornamentals, gardens or crops.

For more specific information on clean-out procedures contact FMC at 800-321-1362.

Should small quantities of QuickSilver T&O Herbicide remain in mixing, loading and/or spray equipment that has been cleaned as described above, they may be released during subsequent applications potentially causing effects to non-target vegetation. FMC accepts no liability for adverse responses to non-target plants or crops.

Weeds Controlled

QuickSilver T&O Herbicide can be used to selectively control weeds including silvery thread moss anytime during the year except as instructed elsewhere in this label. Application rates for control of weeds other than silvery thread moss range from 0.9 to 2.1 fluid ounces per acre as described below. Use the lower rates in a range for susceptible weed species and for optimal environmental conditions. Use the higher rates in the range for dense infestations of perennial weeds, and for adverse/extreme environmental conditions. See "Category 2: Used as a stand-alone product for silvery thread moss control" to determine application rates for control of silvery thread moss.

Category 1: Used as a stand-alone product

Apply QuickSilver T&O Herbicide at rates of 1.0 to 2.1 fluid ounces of product per acre (0.023 to 0.048 fluid ounces per 1000 square feet) for control of seedling (4 inches tall or less) winter and summer annual weeds listed below:

Annual morningglory spp.	Hemp sesbania
Annual sowthistle	Henbit
Black medic	Ivyleaf speedwell
Carpetweed	Kochia
Catchweed bedstraw	Ladysthumb
Coast fiddleneck	Little mallow
Common dayflower	London rocket
Common lambsquarters	Nightshade spp.
Common mallow	PA smartweed
Common purslane	Persian speedwell
Corn speedwell	Pigweed spp.
Deadnettle spp.	Prostrate knotweed
Field pennycress	Shepherd's-purse
Field speedwell	Smallflowered bittercress
Field violet	Wild buckwheat
FL beggarweed	Wild lettuce
FL pusley	Wild mustard
Hairy beggarticks	

Category 2: Used as a stand-alone product for silvery thread moss control:

QuickSilver T&O Herbicide may be used for burndown and control of silvery thread moss (*Bryum argenteum*) occurring on golf course greens and tees consisting of bentgrass. To control silvery thread moss, apply QuickSilver T&O Herbicide at a rate 6.7 fluid ounces of product per acre (0.154 fluid ounces per 1000 square feet) followed by a second application in two weeks at a rate of 6.7 fluid ounces/acre.

Control over longer periods:

If necessary, applications may be repeated every two weeks at a rate that is no less than 2.0 fluid ounces per acre (0.046 fluid ounces per 1,000 square feet) and no more than 6.7 fluid ounces/acre to control moss that has reestablished, as long as the annual maximum rate of 0.40 lb a.i./acre per year is not exceeded.

Use a non-ionic surfactant in the spray mix at a rate of 0.25% volume/volume. Follow all adjuvant manufacturers use guidelines.

Do not tank mix with other pesticides for silvery thread moss control. Application to bentgrass turf that is under stress due to extreme high (>90°F) or low temperatures, disease infection, insect infestation or extreme high or low moisture conditions may cause transitory yellowing. *Poa annua* may be damaged at rates greater than 2.0 fluid ounces per acre.

Most creeping bentgrass varieties are tolerant to QuickSilver T&O Herbicide applications; however, not all varieties of creeping bentgrass have been fully evaluated. When applying QuickSilver T&O Herbicide to creeping bentgrass varieties other than Pennncross or Crenshaw, it is recommended to first confirm tolerance by making an application to a small test area.

Cultural practices that favor the establishment of healthy bentgrass will also help to displace moss that is suppressed by the QuickSilver T&O Herbicide treatment.

Category 3: Used in combinations with phenoxy-type postemergence broadleaf herbicides

Apply QuickSilver T&O Herbicide at rates of 0.9 to 1.5 fluid ounces of product per acre (0.021 to 0.034 fluid ounces per 1000 square feet) in tank-mix combinations with amines, esters, and salts of 2,4-D, dichlorprop, dicamba, mecoprop, MCPA and various combinations of these products for control of seedling and mature weeds listed in Category 1 plus the following:

Canada thistle	Old-world diamond-flower
Carolina geranium	Parsley-piert
Common chickweed	Perennial sowthistle
Common groundsel	Plantain spp.
Common ragweed	Prickly sida
Cutleaf eveningprimrose	Red sorrel
Dandelion	Redstem filaree
Dollarweed	Spotted spurge
Fleabane	VA buttonweed
FL betony	White clover
Ground ivy	Wild violet
Healall	Yellow wood sorrel
Henbit	
Horseweed (<i>Conyza Canadensis</i>)	
Lawn burweed	

Category 4: Used in combinations with other preemergence and postemergence herbicides registered for use in ornamental turf

QuickSilver T&O Herbicide may be applied at rates of 0.9 to 1.7 fluid ounces of product per acre (0.02 to 0.04 fluid ounces per 1000 square feet) in tank-mix combinations with clopyralid, foramsulfuron, glufosinate, glyphosate, halosulfuron-methyl, imazaquin, metsulfuron, quinclorac and triclopyr for control of seedling annuals listed under Category 1 and for temporary burndown of weeds listed in Category 3. QuickSilver T&O Herbicide may be applied at rates of 0.9 to 1.7 fluid ounces of product per acre (0.02 to 0.04 fluid ounces per 1000 square feet) in a tank-mix combination with atrazine applied at 1.0 pounds of active ingredient per acre. Residual, long-term control of target weeds is as defined by the labeling of the companion product. For tank mixing with herbicides not listed above, follow the tank mix compatibility instructions under "Tank Mix Compatibility".

Category 5: Suppression

QuickSilver T&O Herbicide may be applied at rates of 1.0 to 2.1 fluid ounces of product per acre (0.023 to 0.048 fluid ounces per 1000 square feet) for temporary burndown of weeds listed in Category 3. QuickSilver T&O Herbicide may also be used for suppression and temporary burndown of algae (cyanobacteria) occurring in ornamental turf grasses and other landscape environments. Avoid spray drift onto desirable non-target susceptible plants such as vegetables, flowers, ornamentals, trees, shrubs.

QuickSilver T&O Herbicide Use Rate Conversion Table

fl.oz. product /acre	fl.oz. product /1,000 sq. ft.	ml product /1,000 sq. ft.	Lbs. AI /Acre
0.9	0.021	0.6	0.013
1	0.023	0.7	0.015
1.2	0.028	0.8	0.018
1.3	0.030	0.9	0.019
1.5	0.034	1.0	0.022
1.6	0.037	1.1	0.024
1.8	0.041	1.2	0.027
1.9	0.044	1.3	0.028
2.1	0.048	1.4	0.031
6.7*	0.154	4.5	0.099

* Rate used for silvery thread moss control

Conditions of Sale and Limitation of Warranty and Liability:

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and buyer assumes the risk of any such use.

To the extent allowed by law, FMC or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.

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