100-884
Please read instructions on reverse before completing form.

3-16-2001

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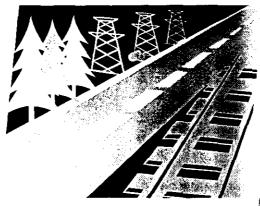
	United States			Registratio	n	OPP Identifier Number	
<b>ŞEPA</b> □	Environmental Prote	ction Ag	jency		Amendment		NOTIFICATION
<del></del>	Washington, DC	20460		x	Other		
	Amalia	ation for	r Bostioids - Sast	lion	<u> </u>		
Company/Product Number	Аррис	auon 101	Pesticide - Section 2. EPA Product			3. Pro	oposed Classification
100-884			Joanne Miller			]	
Company/Product (Name)     Vanquish Herbicide			PM# 23			X	None Restricted
<ol> <li>Name and Address of Application</li> <li>Syngenta Crop Protection</li> <li>P. O. Box 18300</li> <li>Greensboro, NC 27419</li> </ol>	on, Inc.	. —	6. Expedited R my product is simil. EPA Reg. No.				FRA Section 3(c)(3) (b)(i), and labeling to:
	a new address		Product Name				
			ection - II				
		36					
Amendment - Explain be	low.		F	inal p genc	orinted labels in y letter dated	response 1	NOTIFICATION
Resubmission in respons	se to Agency letter dated			de To	oo" Application.		MAR 1 6 2001
X Notification - Explain bek	ow.			ther	- Explain below	<i>'</i> .	
to enforcement action and penalties und updated to reflect Syngenta Crop Prote formed by the merger of Novartis Crop statement. No other changes occur in the	further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. The following changes are being made via this notification: 1) Company name and address have been updated to reflect Syngenta Crop Protection, Inc. 2) The Conditions of Sale and Warranty statement has been changed to reflect the name change. Because Syngenta has been formed by the merger of Novartis Crop Protection, Inc. and Zeneca Ag Products, we have chosen to use the former Zeneca warranty statement as the Syngenta warranty statement. No other changes occur in the statement other than the name change. 3) The copyright date reflects Syngenta. 4) Trademark statements have been updated to reflect Syngenta for those products for which Syngenta holds the trademark. 5) The Internet address has been changed to reflect Syngenta. 6) Other places in the label which						
		Se	ection — iii				
1. Material This Product Will I							
Child-Resistant Packaging Yes* No	Unit Packaging Yes No		Water Soluble Packa Yes No	aging	2. 1	P	ntainer letal lastic lass
*Certification must be submitted	If "Yes" No. Unit Packaging wgt. Cor			No. p		P	aper ther (Specify)
Location of Net Contents Info  Label Cont  Cont	ormation 4.	Size(s) Re	etail Container		5. Loca	On Label	pel Directions ing accompanying product
6. Manner in Which Label is Affixed to Product  Lithograph Paper glued Stenciled  Other							
		Se	ection – IV				
Contact Point (Complete itel	ms directly below for identi			ted,	if necessary, to		
Name Title Telephone No. (Include Area Code) Nan S. Padgett Label Group Leader 336-632-7567 . :							
Certification  I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete.  I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.  6. Date Application Received (Stamped)							
2. Signature New A. P.	adatt	3. Tit Label	le <b>Group Le</b> ader				
4. Typed Name Nan S. Padgett	V	5. De March	te 5, 2001				# # # # # # # # # # # # # # # # # # #

### NOTIFICATION

MAR 1 6 2001

PULL HERE TO OPEN 📂

# Vanquish®



Active Ingredient:
Diglycolamine® salt of

Total:

100.0%

This product contains 38.5% 3,6-dichloro-o-ánisic acid or 4 pounds per gallon (480 g/L).

EPA Reg. No. 100-884

EPA Est. 11773-IA-01

SCP 884A-L1D 0201

### **HERBICIDE**

For selective broadleaf weed and brush control on noncrop lands in the following uses: established turf grasses (including golf courses) and lawns, rightsof-way (including roadways. utility, railroad, highway, pipeline, and rights-of-way that run through pasture and rangeland), utility facilities (including substations. pipelines, tankfarms, pumping stations, parking and storage areas, nonirrigated ditchbanks, and fencerows), fencerows and forest site preparation

KEEP OUT OF REACH OF CHILDREN.

#### CAUTION

See additional precautionary statements and directions for use inside booklet.

2.5 GALLONS

U.S. Standard Measure

syngenta

#### **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, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller 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 SYNGENTA 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 BETHE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

#### **DIRECTIONS FOR USE**

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

Do not apply this product in a way that will **contact workers** or other persons, either directly or through drift. Only protected handlers may be in the area during **application**. For any requirements specific to your State or Tribe, consult the agency responsible for **pesticide regulation**.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted uncer the Worker Protection Standard and that involves contact with anything that has been treated, such as a ants, soil, or water is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

Before applying Vanquish, read all directions and precautions appearing on the container label and in this booklet.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

#### **GENERAL INFORMATION**

The following directions apply to all uses of Vanquish. Additional precautions and restrictions will be found in each specific use section.

Do not treat irrigation ditches or water used for crop imigation or domestic uses.

Do not apply this product through any type of irrigation system

#### Sensitive Crop Precautions

Vanquish may cause injury to desirable trees and plants, particularly beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco tomatoes, and other broadleaf plants when contacting their roots, stems, or foliage. These plants are most sensitive to Vanquish during their development or growing stage, Injury to desirable broadleaf plants will occur if spray is allowed to contact their foliage, stems, or roots. Do not allow spray to crift away from target area. FOLLOW THE PRECAUTIONS LISTED BELOW WHEN USING VANQUISH.

Do not treat areas where either downward movement into the soil or surface washing may cause contact of Vanquish with the roots of desirable plants such as trees and shrucs

To avoid injury to desirable plants, equipment used to apply Vanguish should be thoroughly cleaned (see Procedure for Cleaning Spray Equipment section) before reusing to apply any other chemicals.

#### Management of Off-Site Movement

The following spray drift management precautions should be followed to avoid off-target movement of Vanquish during applications. Avoid making applications when spray particles can be carried by wind to sensitive off-site areas. Avoid making applications in gusty wind conditions or if wind is moving in the direction of sensitive crops. The potential for injury increases with higher wind speed.

Aerial application should be avoided in the vicinity of sensitive off-site crops and plants.

Consult your local or state authorities for possible application restrictions and advice concerning these and other special local use situations. Tank mix recommendations are for use only in states where the tank mix product and application site are registered.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops,

#### **APPLICATION PROCEDURES**

#### **Aerial Application**

- 1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered below.

#### Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions sections).

#### **Controlling Droplet Size**

- Volume Use high flow rate nozzles to apply the highest practical spray volume, Nozzles with higher rated flows produce larger droplets.
- Pressure Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets.

When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

- Number of Nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

#### **Boom Length**

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

#### Application Height

Applications should not be made at a height greater than 10 ft. above the top of the largest plants, unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

#### Swath Adjustment

When applications are made with a **crosswind**, **the swath** will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller drops, etc.).

#### Wind

Drift potential is lowest between wind speeds of 3-10 mph. Do not apply Vanquish at sustained wind speeds greater than 15 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential.

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

#### Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

#### Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

#### Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

#### **Ground Application**

#### Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions sections).

#### **Controlling Droplet Size**

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets.

When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

- Number of Nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

Examples of nozzles designed to produce coarse sprays for ground applications are the Radiarc Sprayer; Delavan Raindrops, Raindrop Flood, or Flooding Spray nozzles; Spraying Systems, Drift Guard DG TeeJets, Turbo TeeJets, or Turbo FloodJet nozzles or large volume flat fan nozzles used with low pressure. Nozzles that produce a narrow angle spray pattern will generally have larger droplets.

#### **Boom Height**

Making applications with the boom at the lowest height that produces a uniform spray pattern will reduce exposure of droplets to evaporation and wind.

#### Swath Adjustment

When applications are made with a crosswind toward sensitive areas, the application should leave a buffer to avoid off-site movement.

#### Wind

Drift potential is lowest between wind speeds of 3-10 mph. Do not apply Vanquish at sustained wind speeds greater than 15 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential.

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

#### Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

#### Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with attitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

#### Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species nontarget crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Approved drift reducing agents may be used.

#### **MIXING INSTRUCTIONS**

#### Compatibility Test

Before mixing in the spray tank, it is advisable to test compatibility by mixing all components in a small container in proportionate quantities (see following table).

### Amount of Herbicide to Add to One Pt. of Spray Carrier (Assuming Volume is 25 Gals./A)

Herbicide Formulation	Rate Per Acre	Level Tsp.
Dry	1 lb.	11/2
Liquid	1 pt.	1/2

If herbicide(s) do not ball-up or form flakes, sludge, gels, oily films, layers, or other precipitates, then the tested spray mix is compatible. Usually, incompatibility in any of the above described forms will occur within 5 minutes after mixing.

If components are incompatible, the use of a compatibility agent is recommended. Rerun the above compatibility test with a suitable compatibility agent (1/4 tsp. is equivalent to 2 pts./100 gals. of fluid fertilizer).

#### **PROCEDURE FOR CLEANING SPRAY EQUIPMENT**

The steps listed below are suggested for thorough cleaning of spray equipment following applications of Vanquish.

- Hose down thoroughly the inside as well as outside surfaces of equipment while filling the spray tank half full of water. Flush by operating sprayer until the system is purged of the rinse water.
- 2. Fill tank with water while adding 1 qt, of household ammonia for every 25 gals, of water. Operate the pump to circulate the ammonia solution through the sprayer system for 15-20 minutes and discharge a small amount of the ammonia solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
- 3. Flush the solution out of the spray tank through the boom.
- 4. Remove the nozzles and screens and flush the system with two full tanks of water.

The steps listed below are suggested for thorough deaning of spray equipment used to apply Vanquish as a tank mix with wettable powders (WP), emulsifiable concentrates (EC), or other types of water-dispersible formulations, Vanquish tank mixes with water-dispersible formulations require the use of a water/detergent rinse.

- 5. Complete step 1.
- 6. Fill tank with water while adding 2 lbs, of detergent for every 40 gals, of water, Operate the pump to circulate the detergent solution through the sprayer system for 5-10 minutes and discharge a small amount of the solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
- 7. Flush the detergent solution out of the spray tank through the boom.
- 8. Repeat step 1, and follow with steps 2, 3. and 4.

#### **GENERAL WEED LIST**

This is a general list of weeds which may be treated with Vanquish in accordance with this label, as recommended under the Rates and Timings sections of the individual use headings. Proper usage of this product will give control or growth suppression of many annual, biennial, and perennial broadleaf weeds, and many woody brush and vine species including:

#### Annuals

Common

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Amaranth, Spiny	Goosefoot, Nettleleaf	Pennycress, Field	Senna, Coffee
(Spiny Pigweed)	Henbit	(Fanweed.	Sesbania, Hemp
Aster, Slender	Jimson <b>weed</b>	Frenchweed,	Shepherdspurse
Bedstraw	Knotwe <b>ed</b>	Stinkweed)	Sicklepod
Beggarweed, Florida	Kochia	Pepperweed, Virginia	Sida, Prickly (Teaweed)
Broomweed, Common	Kochia	(Peppergrass)	Smartweed, Green
Buckwheat, Wild	(triazine resistant)	Pigweed. Prostrate	Smartweed,
Buffalobur	Ladysth <b>umb</b>	Pigweed, Redroot	Pennsylvania
Burclover, California	Lambsquarters.	(Carelessweed)	Sneezeweed, Bitter
Burcucumber	Common	<b>Pigw</b> ∈ed. Rough	Sowthistle, Annual
Buttercup, Roughseed	Lambs <b>quarters</b>	Pigweed, Smooth	Sowthistle, Spiny
Carpetweed	(triazine resistant)	Pigweed	Spanishneedles
Catchfly, Nightflowering	Lettuce, <b>Prick</b> ly	(triazine resistant)	Spikeweed, Common
Chamomile, Corn	Mallow, Common	Pigw∈∈d, Tumble	Spurge
Chickweed, Common	Mallow, Venice	<b>Poo</b> rjoe	Spurry, Corn
Clovers (Annual)	Mares <b>tail</b>	Puncturevine Puncture	Starbur, Bristly
Cockle, Corn	(Horseweed)	Purslane, Common	Sumpweed, Rough
Cockle, Cow	Maywe <b>ed</b>	Pusley. Florida	Sunflower, Common
Cocklebur, Common	Medic, Black	Radish, Wild	(Wild)
Croton, Tropic	Morningglory, lvyleaf	Ragweed, Common	Sunflower, Volunteer
Croton, Woolly	Morningglory, Tall	Ragweed, Giant	Thistle, Russian
Daisy, English	Mustard, Tansy	(Buffaloweed)	Velvetleaf
Eveningprimrose,	Mustard, Wild	Ragweed Lance-Leaf	Waterhemp
Cutleaf	Mustard (Yellowtops)	Rubberweed, Bitter	Waterprimrose, Winged
Fleabane, Annual	Nightshade, Black	(Bitterweed)	Wormwood Annual
Biennials			
Burdock, Common	Geranium, Carolina	Plantain, Bracted	Thistle, Bull
Carrot, Wild	Gromwell	Ragwort, Tansy	Thistle, Milk
(Queen Anne's Lace)	Knapweed, Diffuse	Starthistle, Yellow	Thistle, Musk
Cockle, White	Knapweed, Spotted	Sweetclover	Thistle, Plumeless
Eveningprimrose,	Mallow, Dwarf	<b>Tea</b> sel	

#### Perennials

Alfalfa*	Clover, Hop*	Milkweed, Climbing	Sowthistle, Perennial
Artichoke, Jerusalem	Dandelion, Common*	Milkweed, Common	Spurge, Leafy
Aster, Spiny	Dock, Broadleaf*	Milkweed, Haneyvine	Sundrop, Halfshrub
Aster, Whiteheath	(Bitterdock)	Milkweed, Western	(Eveningprimrose)
Bedstraw, Smooth	Dock, Curly*	<b>Who</b> rled	Thistle, Canada
Bindweed, Field	Dogbane, Ĥemp.	. Nettle, Stinging	Toadflax, Dalmatian
Bindweed, Hedge	Dogfennel*	Nightshade, Silverleaf	Tropical Soda Apple
Blueweed, Texas	(Cypressweed)	(White Horsenettle)	Trumpetcreeper
Bursage*	Fern, Bracken	Onion, Wild	(Buckvine)
(Bur Ragweed,	Garlic, Wild	Plantain, Broadleaf*	Vetch
Lakeweed,	Goldenrod, Canada	Piantain, Buckhorn	Violet, Wild
Povertyweed)	Goldenrod, Missouri	Pokeweed	Waterhemlock
Bursage, Woollyleaf	Goldenweed, Common	Ragweed, Western	Waterprimrose,
(Lakeweed)	Hawkweed	Sericia Lespedeza	Creeping
Buttercup, tall	Henbane, Black	Redvine	Woodsorrel, Creeping*
Campion, Bladder	Horsenettle, Carolina	Smartweed, Swamp	(Common Yellow)
Chickweed, Field		" Snakeweed, Broom	Wormwood, Common
Chickweed, Mouseear	Ivy, Ground	Sorrel, Red*	Wormwood, Louisiana
(Canada)	Knapweed, Black	(Sheep Sorrel)	Yankeeweed*
Chicory	Knapweed, Russian	<b>Sowt</b> histle	Yarrow, Common

<sup>\*</sup>Noted perennials may be controlled using Vanquish at rates lower than those recommended for other listed perennial weeds. (See Rates and Timings section.)

#### Woody

Aitanthus	Cucumbertree	Ivy, Poison	Rose, McCartney*
(Tree of Heaven)	Dewberry*	Kudzu	Rose, Multiflora
Alder	Dogwood*	Locust, Black	Sagebrush, Fringe
Ash	Elm	Maple*	Sassafras
Aspen	Gallberry	<b>Mesq</b> uite	Serviceberry
Basswood	Grape	Oak*	Spicebush
Beech	Hackberry	Oak, Poison	Spruce
Birch	Hawthorn*	Olive, Russian	Sumac
Blackberry*	(Thornapple)	Persimmon,	Sweetgum*
Błackgum*	Hemlock	Eastern	Sycamore
Brazilian Pepper	Hickory	Pine	Tarbush
Cedar*	Honeylocust	Plum, Sand*	Wax Myrtle
Cherry	Honeysuckle	(Wild Plum)	Willow
Chinquapin	Hornbeam	Poplar	Witchhazel
Cottonwood	Huckleberry	Rabbitbrush	Yaupon*
Creosotebush*	Huisache <sup>*</sup>	Redcedar, Eastern	Yucca*

<sup>\*</sup>Tank mixtures may be needed for optimal control.

#### RIGHTS-OF-WAY, UTILITY AND INDUSTRIAL AREAS, AND FENCEROWS

Vanquish is recommended for use on general farmstead weed and brush control and for use on noncrop land areas such as rights-of-way (such as roadways, rest areas, utility, railroad, highway, pipeline, and rights-of-way that run through pasture and rangeland); utility facilities (such as substations, pipelines, tankfarms, pumping stations, parking and storage areas, fencerows, and nonirrigated ditchbanks); brush control for forest site preparation or maintenance,

Observe all Precautions on this label. Read and follow the Mixing and Application section.

#### General Farmstead

Vanquish can be used on or around farms and farmstead for control of many broadleaf weeds and brush in noncrop land areas only.

#### Rights-of-Way

Vanquish can be used to control many broadleaf weeds on rights-of-way. This use includes applications to roadside, roadway and highways; to areas along utilities such as cable and powerlines; railroad track and embankment; highways, highway medians, bridge abutments, pipelines, and rights-of-way that run through pasture and rangeland. Use controlled application techniques that minimize the risk of off-target movement.

#### **Utility and Industrial Areas**

Vanquish can be used to control many broadleaf weeds and brush in noncrop areas on or surrounding substations, pipelines, tankfarms, pump stations, production facilities, and bareground situations. It may also be used on parking and storage areas (refer to **Best Stewardship** Practices to avoid direct runoff from impervious surfaces).

#### **Fencerows**

Vanquish can be used to control many broadleaf weeds and brush in fencerows.

#### Mixing and Application

Read and observe Management of Off-Site Movement recommendations in this label.

Vanquish can be applied using water, oil in water emulsions including invert systems, or sprayable fluid fertilizer as a carrier. A compatibility test (see Compatibility Test section) should be made prior to tank mixing.

8/14

To prepare oil in water emulsions, half-fill spray tank with water, then add the appropriate amount of emulsifier. With continuous agitation, slowly add the herbicide and then the herbicidal oil or a premix of oil plus additional emulsifier to spray tank. Complete filling of spray tank with water. Maintain vigorous agitation during spray operation to prevent oil and water from forming separate layers.

Vanquish may be applied broadcast using either ground or aerial application equipment. When using ground equipment, apply low or high volume sprays of between 3-600 gals, of diluted spray per treated acre. Volume of spray applied will depend on the height, density, and type of weeds or brush being treated and on the type of equipment being used. When using aerial equipment, apply 5-40 gals, of diluted spray per treated acre.

Vanquish may be applied to individual clumps or small areas (spot treatment) of undesirable vegetation using handgun or similar types of application equipment. Apply diluted sprays to allow complete wetting (up to runoff) of foliage and stems.

Herbicide adjuvants or other spray additives (emulsifiers, spreader stickers, surfactants, wetting agents, drift control agents, or penetrants) may be used for wetting, penetration, or drift control. Spray additives must be agriculturally approved when used in pasture applications. If spray additives are used, read and follow all use recommendations and precautions on product label.

#### Weeds and Brush Controlled

Vanquish, when applied at recommended rates, will give control of many annual biennial, and perennial broadleaf weeds, and many woody brush and vine species commonly found in noncrop land areas. (Refer to General Weed List.) Noted (\*) perennial weeds may be controlled with lower rates of either Vanquish or Vanquish plus tank mix combinations. See Rates and Timings below.

#### Table 1: Rates and Timings

Application rates and timings of Vanquish are given below. Use the higher level of listed rate ranges when treating dense or tall vegetative growth.

Weed Stage and Type	Amount of Product Per Acre	Gals. of Spray Mixture Per Acre**	Spray Concentration for Use with Low Volume Application**** (%vol/vol)
Annual Small, Actively Growing Established weed growth	1/2-1 pt. 1-11/2 pts,	25-50 50-75	3 3
Biennial* – Rosette diameter Less than 3" 3" or more Bolting	1/2-1 pt. 1-2 pts. 2-3 pts.	25-50 50-100 100-150	3-4 3-4 3-4
Perennial Suppression or top growth control Noted (*) Perennials Other Perennials	1/2-1 pt. 2-4 pts. 4 pts.	50-100 100-200 200	4 4 5
Woody Brush and Vines*** Top Growth Stems and Roots	1/2-4 pts. 4 pts.	50-200 200	5 5

<sup>\*</sup>For best performance, make application when biennial weeds are in the rosette stage.

Retreatments may be made as needed; however, do not exceed a total of 4 pts. (2 lbs. a.i.) of Vanquish per treated acre during a growing season.

#### **TANK MIX OPTIONS**

Vanquish may be tank mixed with other herbicides for additional weed control. The following table lists example options, but does not limit tank mix options.

READ AND FOLLOW THE LABEL OF EACH TANK MIX PRODUCT USED FOR PRECAUTIONARY STATEMENTS, DIRECTIONS FOR USE, APPLICATION RATES. AND OTHER RESTRICTIONS. Consult product labels for rate recommendations for tank mix partners.

<sup>\*\*</sup> Assuming typical application rate of 1 gt. of Vanquish/100 gals

<sup>\*\*\*</sup> Tank mixes may be required for optimal control. Refer to General Weed List.

<sup>\*\*\*\*</sup> Low volume rates must not exceed 4 pts. of Vanquish maximum per acre per year (5% volume/volume = 10 gals, maximum solution per acre per year).

Table 2: Tank Mixes

Herbicide	Rates Per Treated Acre (lbs. a.i.)
norflurazon (Predict®)	
prodiamine (Endurance®)	
glufosinate (Finale®)	
glyphosate (Roundup®, Accord®)	
metsulfuron methyl (Escort®)	
pendimethalin (Pendulum®)	
triclopyr (Redeem®, Garlon®)	
clopyralid (Transline®)	
bromacil (Hyvar®)	
chlorsulfuron (Telar®)	
diquat (Reward®)	1
simazine (Princep®)	Consult product labels for rate recommendations.
diuron (Karmex®)	
DSMA	
fosamine ammonium (Krenite®)	
hexazinone (Velpar®)	
imazapyr (Arsenal®)	
imazemeth (Plateau®)	
MSMA	
sulfometuron methyl (Oust®)	
sulfosate (Touchdown®)	
tebuthiuron (Spike®)	
2,4-D	

Due to the differences that may occur between specific formulated products and specific use ingredients (e.g., water supplies), a compatibility test (see Compatibility Test section) is recommended prior to actual tank mixing.

#### **CUT SURFACE TREE TREATMENTS**

Vanquish may be applied as a cut surface treatment for control of unwanted trees and prevention of sprouts of cut trees. A mix of 1 part Vanquish with 1-3 parts water should be used in application; surfactants or oil may be added to potentially enhance control. Use the lower dilution when treating difficult-to-control species. Applications work best if made within 30 minutes of cutting.

**Frill or Girdle Treatments:** Make a continuous cut or a series of overlapping cuts using an axe to girdle tree trunk. Spray or paint cut surface with the Vanquish/water mix.

Stump Treatments: Spray or paint freshly cut surface with the water mix. The area adjacent to the bark should be thoroughly wet.

#### **DORMANT APPLICATIONS FOR CONTROL OF MULTIFLORA ROSE**

Vanquish can be applied when plants are dormant as an undiluted Spot-Concentrate directly to the soil or as a Lo-Oil Basal Bark treatment using an oil-water emulsion solution.

**Spot-Concentrate** applications of Vanquish should be applied directly to the soil as close as possible to the root crown, but within 6-8 inches of the crown. On sloping terrain, application should be made to the uphill side of the crown. Do not make application when snow or water prevents applying Vanquish directly to the soil. The use rate of Vanquish is dependent on the canopy diameter of the multiflora rose. Examples: Use Vanquish at  $^{1}/_{4}$ , 1, or  $^{21}/_{4}$  fl. oz. of product respectively for 5, 10, or 15 ft. canopy diameters. Do not exceed a total of 2 qts. of Vanquish per acre per year.

Lo-Oil Basal Bark applications of Vanquish should be applied to the basal stem region from the ground line up to a height of 12-18 inches. Spray until runoff, with special emphasis on covering the root crown. For best results, make application when plants are dormant. Do not make application after bud break or when plants are showing signs of active growth. Do not make application when snow or water prevents applying Vanquish to the ground line. Refer to the **Mixing and** Application section for method of preparing oil-in-water emulsion. Example for making approximately 2 gals. of a Lo-Oil spray solution mixture: combine 1½ gals. of water plus 1 oz. of emulsifier plus 1 pt. of Vanquish plus 2½ pts. of No. 2 diesel fuel. Adjust amounts of materials used proportionately to the amount of final spray solution desired. Do not exceed 8 gals. of spray solution mix applied per acre per year.

#### **FOREST SITE PREPARATION**

#### General Information

Vanquish may be used for control of undesirable conifers as well as many broadleaf weeds, vines, brambles, hardwood brush, and trees in forest site preparation. Vanquish may be applied as broadcast foliar sprays from ground or aerial equipment. Vanquish is absorbed through the leaf surfaces quickly after spraying and will also be absorbed from the soil by the roots. Translocation through the leaves, stems, and roots provides control of undesirable young conifer and broadleaf species. Woody plants, brush, and trees may not display the full extent of herbicide efficacy until several months following treatment. Vanquish provides application flexibility for extended windows of application and tank mix options (refer to Mixing and Application Instructions and Tank Mix Options).

#### Mixing and Application Instructions

#### **Ground Operated Spray Equipment**

Thoroughly mix and apply the recommended amount of Vanquish (2 qts./A maximum) in a minimum of 15 gals, of water per acre. Spray solution should uniformly cover undesirable foliage for best results, A suitable nonionic surfactant should be added to the spray solution to enhance foliage wetting, spreading, and solution absorption. Drift control and foam reducing agents may be added at recommended rates, if needed. Spray pattern indicator agents may also be added at recommended rates, if desired. DO NOT spray under windy or gusty conditions. Maintain proper buffer zones to ensure drift does not reach off-target vegetation.

#### Aerial Spray Equipment

Thoroughly mix the recommended amount of Vanquish (2 qts./A maximum) in a minimum of 10 gals, of water per acre and uniformly apply with property calibrated aerial equipment. A suitable nonionic surfactant should be added to the spray solution to enhance wetting, spreading, and solution absorption. All precautions should be taken to minimize or eliminate spray drift. Drift control and foam control agents may be added at recommended rates, if needed.

#### Tank Mix Options

For extended range of species control, tank mix Vanquish with other forest site preparation products such as Arsenal, Garlon, Accord, etc. Observe all precautions and restrictions on the product labels. Always follow the most restrictive label in a tank mix.

#### **TURF AND LAWNS**

Including Golf Course (Fairways, Aprons, Tees, and Rough), Parks, Recreational areas, Lawn care application, Sod farms

IMPORTANT: Observe all Precautions on this label. Read and follow Mixing and Application instructions.

Established grass stands growing under stress can exhibit various injury symptoms that may be more pronounced if herbicides are applied. To avoid injury to newly seeded grasses, application of Vanquish should be delayed until after the second mowing. Furthermore, application rates in excess of 1 pt. (1/2 lb. a.i.) per treated acre may cause noticeable stunting or discoloration of sensitive grass species such as bentgrass, carpetgrass, buffalograss, and St. Augustinegrass.

In areas where roots of sensitive plants extend, do not apply in excess of 1/4 pt. ( $1/\epsilon$  lb. a.i.) of Vanquish per treated acre on coarse-textured (sandy-type) soils, or in excess of 1/2 pt. (1/4 lb. a.i.) per treated acre on fine-textured (clay-type) soils. Do not make repeat applications in these areas for 30 days and until previous applications of Vanquish have been activated in the soil by rain or irrigation.

#### Weeds Controlled

Vanquish, when applied at recommended rates, will give control of many annual, piennial, and noted (\*) perennial broadleaf weeds commonly found in turf. Vanquish will also give growth suppression of many other listed perennial broadleaf weeds and woody brush and vine species. (Refer to General Weed List.)

#### Mixing and Application

Apply 30-200 gals, of diluted spray per treated acre (3 qts.-41/4 gals./1,000 sq. ft.), depending on density or height of weeds treated and on the type of equipment used.

#### Rates and Timings

Use the higher level of listed rate ranges when treating dense vegetative growth

Table 3: Vanquish Broadcast Application Rates

Weed Stage and Type	Pts. Per Treated Acre	Lbs. a.i. Per Treated Acre	Tsp. Per 1,000 sq. ft.
Annual Small, actively growing Established weed growth	1/2-1 pt. 1-11/2 pts.	1/4-1/2 1/2-3/4	1-2 <sup>1</sup> / <sub>4</sub> 2 <sup>1</sup> / <sub>4</sub> -3 <sup>1</sup> / <sub>4</sub>
Biennial* – Rosette diameter Less than 3 inches 3 inches or more	1/z-1 pt. 1-2 pts.	1/4-1/2 1/2-1	1-2 <sup>1</sup> / <sub>4</sub> 2 <sup>1</sup> / <sub>4</sub> -4 <sup>1</sup> / <sub>2</sub>
Perennial, Woody Brush, and Vines	1-2 pts.	1/2-1	21/4-41/2

<sup>\*</sup>For best performance, make application when biennial weeds are in the rosette stage.

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For best performance, apply when weeds are emerged and actively growing.

Retreatments may be made as needed; however, do not exceed a total of 2 pts. (1 lb. a.i.) of Vanquish per treated acre during a growing season.

#### **Tank Mix Treatments**

READ AND FOLLOW THE LABEL OF EACH TANK MIX PRODUCT USED FOR PRECAUTIONARY STATEMENTS, DIRECTIONS FOR USE, APPLICATION RATES AND TIMINGS, AND OTHER RESTRICTIONS. Consult product labels for rate recommendations for tank mix partners. OBSERVE ALL PRECAUTIONS AND RESTRICTIONS ON THE PRODUCT LABELS. ALWAYS FOLLOW THE MOST RESTRICTIVE LABEL IN A TANK MIX.

Tank mix treatments of Vanquish may be made with 2,4-D, MCPA, MCPP, Confront®, or bromoxynil for control of additional weeds listed on the tank mix product label.

Apply 1/5-1/2 pt. (1/10-1/4 lb. a.i.) of Vanquish per treated acre with 1/2-11/2 lbs. acid equivalent of 2,4-D, MCPA, or MCPP, or with 1-2 pts. of Confront, or with 3/8-1/2 lb. a.i. of bromoxynil. Use the higher level of the listed rate ranges when treating established weeds. Repeat treatments may be made as needed; however, do not exceed 2 pts. (1 lb. a.i.) of Vanquish per treated acre during the growing season.

#### **STORAGE AND DISPOSAL**

#### **Prohibitions**

Do not contaminate water, food, or feed by storage or disposal.

#### Storage

Store in original container in a well-ventilated area separately from fertilizer, feed, and foodstuffs. Avoid cross-contamination with other pesticides. Spillage or leakage should be contained and absorbed with clay granules, sawdust, or equivalent material for disposal.

#### Pesticide Disposal

Triple rinse pesticide from containers and use rinsates in the pesticide application. Wastes which cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

#### Container Disposal

Triple rinse container (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

#### **PRECAUTIONARY STATEMENTS**

#### Hazards to Humans and Domestic Animals

#### CAUTION

Avoid contact with skin, eyes, or clothing. Harmful if swallowed. Avoid breathing spray mist.

#### First Aid

#### If swallowed:

- · Call poison control center or doctor immediately for treatment advice.
- · Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

#### If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- · Call a poison control center or doctor for treatment advice

#### If on skin or clothing:

- · Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- · Call a poison control center or doctor for treatment advice

#### If inhaled:

- · Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

Have the product container label with you when calling a poison control center or doctor or going for treatment.

#### Vanguish®

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#### **Personal Protective Equipment**

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- · Waterproof gloves
- · Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **Engineering Control Statements**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **User Safety Recommendations**

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing.
   As soon as possible, wash thoroughly and change into clean clothing.

#### **Environmental Hazards**

Keep out of lakes, streams, or ponds. **Do not apply directly** to water, to areas where surface water is present, or to intertidal areas below the **mean high water mark**. Do not contaminate water when disposing of equipment wash water.

#### **Best Stewardship Practices**

Vanquish provides effective broadleaf weed and brush control when properly applied. Best stewardship practices in all mixing, loading, and application operations not only maximize weed control, but also protect ground and surface waters and minimize off-target movement.

This chemical is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

#### **Ground and Surface Water Protection**

1. Point source contamination – To prevent point source contamination, do not mix, load this pesticide product within 50 ft. of wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded takes and reservoirs. Do not apply pesticide product within 50 ft. of wells. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas as described below.

Mixing, loading, rinsing, or washing operations performed within 50 ft. of a well are allowed only when conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be on or move across the pad. The pad must be self-contained to prevent surface water flow over or from the pad. The pad capacity must be maintained at 110% of that of the largest pesticide container or application equipment used on the pad and have sufficient capacity to contain all product spills. equipment or container leaks, equipment wash water, and rain water that may fall on the pad. The containment capacity does not apply to vehicles delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

Care must be taken when using this product to prevent: (a) back-siphoning into wells. (b) spills. or (c) improper disposal of excess pesticide, spray mixtures, or rinsates. Check-valves or antisiphoning devices must be used on all mixing equipment.

- 2. Movement by surface runoff or through soil Do not apply under conditions which favor runoff. Do not apply to impervious substrates such as paved or highly compacted surfaces in areas with high potential for ground water contamination. Ground water contamination may occur in areas where soils are permeable or coarse and ground water is near the surface. Do not apply to soils classified as sand with less than 3% organic matter and where ground water depth is shallow. To minimize the possibility of ground water contamination, carefully follow application rate recommendations as affected by soil type in the General Information section of this label.
- 3. Movement by water erosion of treated soil Do not apply or incorporate this product through any type of irrigation equipment or by flood or furrow irrigation. Ensure treated areas have received at least one-half inch rainfall (or irrigation) before using tailwater for subsequent irrigation of other fields.

Apply this product only as directed on label.

Endurance®, Predict®, Princep®, and Vanquish® trademarks of Syngenta Accord® and Roundup® trademarks of Monsanto Agricultural Products Company Arsenal®, Pendulum®, and Plateau® trademarks of American Cyanamid Company Confront®, Garlon®, Redeem®, Spike®, and Transline® trademarks of Dow AgroSciences Diglycolamine® trademark of Texaco Chemical Company Escort®, Hyvar®, Karmex®, Krenite®, Oust®, Telar®, and Velpar® trademarks of E. I. duPont de Nemours and Company, Inc.

Finale® trademark of AgrEvo USA Company

Reward® and Touchdown® trademarks of ICI Americas Inc.

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# **Vanquish**<sup>®</sup>

#### **HERBICIDE**

For selective broadleaf weed and brush control on noncrop lands in the following uses: established turf grasses (including golf courses) and lawns, rights-of-way (including roadways, utility, railroad, highway, pipeline, and rights-of-way that run through pasture and rangeland), utility facilities (including substations, pipelines, tankfarms, pumping stations, parking and storage areas, nonirrigated ditchbanks, and fencerows), fencerows and forest site preparation

Active Ingredient: Diglycolamine® salt of	3.6-
dichloro-o-anisic acid	
Other Ingredients:	43.2%
Total:	100.0%

This product contains 38.5% 3,6-dichloro-o-anisic acid or 4 pounds per gallon (480 g/L).

EPA Reg, No. 100-884 EPA Est. 11773-IA-01

Vanquish® trademark of Syngenta

Diglycolamine® trademark of Texaco Chemical Company

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SCP 884A-L1D 0201

2.5 GALLONS U.S. Standard Measure

See directions for use in attached booklet.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

## KEEP OUT OF REACH OF CHILDREN. CAUTION

#### Precautionary Statements

**Hazards to Humans and Domestic Animals Avoid contact** with skin, eyes, or clothing. Harmful if swallowed. Avoid breathing spray mist.

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