

Specimen Label

Redeem*

Herbicide

For the Control of Woody Plants and Broadleaf Weeds on Rangeland, Permanent Grass Pastures, Roadsides, Fence Rows, Non-Irrigation Ditch Banks and Forest Sites

Active Ingredient(s):

Triclopyr (3,5,6-trichloro-2-pyridinyloxyacetic acid), as the triethylamine salt 44.4%

Inert Ingredient(s):

55.6%

Acid equivalent, Triclopyr - 31.8% - 3 lb gal

E.P.A. Registration No. 464-546

E.P.A. Est. 464-MI-1

KEEP OUT OF REACH OF CHILDREN

DANGER

PELIGRO:

PRECAUCION AL USUARIO:

Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUSES EYE DAMAGE AND SKIN IRRITATION • HARMFUL IF SWALLOWED

Do Not Get In Eyes, On Skin Or On Clothing
• Wear Goggles Or Face Shield and Rubber Gloves When Handling • Avoid Contamination Of Food • Wash Thoroughly After Handling

STATEMENT OF PRACTICAL TREATMENT: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention promptly. Flush skin with water and get medical attention if signs of irritation develop. Remove and wash contaminated clothing before reuse. If swallowed, promptly drink a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. **Avoid alcohol.** Call physician.

Physical or Chemical Hazards

Do Not Cut or Weld Container • Do Not Use or Store Near Heat or Open Flame.

Environmental Hazards

Do not apply directly to water or wetlands. Do not contaminate water when disposing of equipment washwaters.

NOTICE

Read and understand the entire label before using. Use only according to label directions.

Before buying or using this product read WARRANTY LIMITATIONS AND DISCLAIMER elsewhere on this label. If terms are not acceptable, return **unopened** package at once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under WARRANTY LIMITATIONS AND DISCLAIMER.

IN CASE OF AN EMERGENCY

endangering life or property involving this product, call collect 517-636-4400

AGRICULTURAL CHEMICAL

Do Not Ship or Store with Food, Feeds, Drugs, or Clothing

See Side Panel for Important Use Precautions

*
Redeem

BEST AVAILABLE COPY

GENERAL INFORMATION

REDEEM Herbicide is recommended for the control of unwanted woody plants and annual and perennial broadleaf weeds and for control of the major forest tree species, forest tree seedlings and shrubs, including those which throw an abundance of seeds or fruit which may be a nuisance. A few trees which are difficult to control with other herbicides may be controlled with REDEEM.

Among the woody plants which are controlled are:

Alder	Dogwood	Persimmon,
Arrowwood	Elderberry	Common
Ash(1)	Elm(1) (except	Poison Oak(1)
Aspen	winged)	Poplar
Beech	Hazel(1)	Sassafras
Birch	Locust, Black	Scotch
Blackberry	Madrone(1)	Broom
Blackgum(1)	Maples(1)	Sumac
Cascara	including	Sweetgum(1)
Ceanothus	mountain, sugar	Sycamore
Cherry(1) (except	red, striped)	Western
black)	Mulberry	Hemlock
Chinquapin	Oaks(1) (except	Willow
Choke Cherry(1)	for post,	
Cottonwood	blackjack and	
	black oak)	

(1) hard to control species

Among the annual and perennial broadleaf weeds controlled are:

Burdock	Field Bindweed(tg)	Smartweed(tg)
Canada Thistle(tg)	Fireweed	Tansy
Chicory(tg)	Ground Ivy	Ragwort
Clover	Lambsquarters	Vetch
Curly Dock	Plantain(tg)	Wild Lettuce
Dandelion	Ragweed	

(tg) top growth

GENERAL DIRECTIONS FOR USE

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

Do not use for manufacturing or formulating.

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

Use REDEEM Herbicide at rates of 1/4 to 3 gallons (see Grazing Restrictions) per acre to control broadleaf weeds and woody plants. In all cases use the amount specified in enough water to give uniform and complete coverage of the plants to be controlled. Use only water suitable for spraying.

TABLE 1

High-Volume Leaf-Stem Directed Spray Applications Preparation of Different Quantities of Spray Solution

Actual Quantity of Spray Needed	Quantity of Product Listed on Label (to make 3 gallons of spray mixture)			
	1 oz	2 oz	4 oz	20 oz
1 gallon	0.3 oz	0.7 oz	1.4 oz	7.0 oz
10 gallons	3.3 oz	7.0 oz	14.0 oz	70.0 oz

Foliar Broadcast Ground Applications (see TABLE 2 if you wish to spray smaller areas): This is a foliar spray herbicide which acts as a contact herbicide. It is applied to the leaves of the plants to be controlled. REDEEM at 1/4 to 1 ounce may be combined with 1 to 2 gallons of 2,4-D 3,8-lb amine or low volatility formulation to make 20 to 100 gallons of total spray per acre.

Make application using equipment that will assure uniform coverage of the spray volumes applied. To improve spray coverage, add an agricultural surfactant (such as Ortho X-77 or Tropic) at a rate of 1/4 to 1 pint per acre. Use the higher rates of surfactant for low rates of product and lower spray volumes.

For best results, application should be made when woody plants and weeds are in full leaf growth. When spraying species such as ash, blackgum, choke cherry, elm, hazel, madrone, maple, oaks, and willow, make application in late summer when the plants are mature and during drought conditions. Use the recommended REDEEM Herbicide alone with high volume foliar application methods or using single stem, stem four techniques.

The recommended order of addition to the spray tank is water, NALCO-TROL drift control additive (if used), surfactant (if used), herbicide (if used), and REDEEM Herbicide. If combined with 2,4-D, add 2,4-D first, then the herbicide.

When using REDEEM Herbicide alone, use 1/4 to 3 gallons of spray mixture per acre. When combined with 2,4-D, use 20 to 100 gallons of total spray mixture per acre.

Use the higher dosage when the brush to be treated is an average of 15 feet in height or when the brush covers more than 60% of the area to be treated. If lower rates are used on hard-to-control species, a second application may be necessary following treatment. Brush less than 15 feet high should be treated efficiently. Large brush or trees may be better controlled by basal or mechanical methods.

Before using any recommended tank mixtures, read the directions and all use precautions on both labels.

NON-CROP AREA APPLICATIONS

A - Woody Plant Control

High-Volume Leaf-Stem Treatment with Ground

Equipment: Using a power- or hand-pressured spray gun or wand, apply REDEEM Herbicide at the rate of 1/4 to 4 ounces in enough water to make 3 gallons of spray solution or REDEEM at 1 ounce to 2 ounces may be tank mixed with 1 to 2 ounces of 2,4-D 3,8-lb amine or low volatility ester and diluted to make 3 gallons of spray solution. Coverage should be thorough to wet all leaves, stem and root collars. (See **Use Precautions** and **TABLE 1** mixing chart to help you prepare different quantities of spray solution.)

The required spray volume will increase substantially if the brush exceeds 5 feet in height. Brush over 8 feet high should be treated by other methods. For more information on brush control, consult your local extension agent.

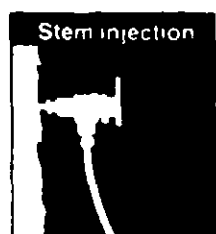
Directed Applications: To control hardwoods such as red maple, sugar maple, striped maple, sawtoothed and white oaks, ash, elm, birch, aspen, and poplar, mix 4 to 20 ounces of REDEEM Herbicide in enough water to make 3 gallons of spray mixture. To improve spray coverage, add an agricultural surfactant (such as Ortho X-77 or Tropic). The spray mixture should be directed onto the bark of competing hardwoods using knapsack or backpack sprayers with fan nozzles or equivalent and the spray should be applied to the full leaf size, but before autumn leaf fall. When plants are actively growing, the maximum height of the spray should be less than 6 feet in height and the spray should be applied to the leaves. Care should be taken to avoid spray contact with conifer foliage, particularly with spruce, fir, and white pines.

TABLE 2

Broadcast Spray Applications (Brush and Weed Control) Preparation of Spray Solution for Smaller Areas

Area to be Sprayed	Quantity to be added to 1 Gallon (Quantity per Acre)														
	Pints			Quarts			Gallons								
	1/4	1	2	1/2	1	1 1/2	1	1 1/2	2	3	10	20	30	50	100
1000 ft sq	1 1/2 tsp	2 tsp	8 tsp	1 oz	1 1/2 oz	3 oz	4 oz	4 1/2 oz	6 oz	9 oz	30 oz	3 1/4 pt	5 1/4 pt	1 1/2 gal	2 3/4 gal
5000 ft sq	0 5 oz	1 8 oz	1 oz	5 oz	7 oz	15 oz	10 oz	11 oz	30 oz	2 1/4 pt	12 gal	1 1/4 gal	3 6 gal	5 6 gal	11 2 gal
10 000 ft sq	5 tsp	3 5 oz	14 oz	10 oz	14 oz	34 pt	20 oz	2 1/4 pt	3 1/2 pt	5 1/2 pt	2 2 gal	4 4 gal	6 6 gal	11 gal	22 gal

Single-Stem Non-Foliar Applications:



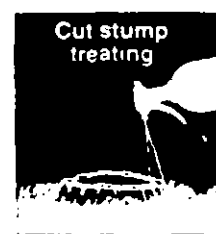
TREE INJECTOR METHOD

Applications should be made by injecting 1/2 milliliter of undiluted REDEEM or 1 milliliter of the diluted (1:1 ratio, in water) solution through the bark at intervals of 3-4 inches between centers of the injector wound. The injections should completely surround the tree at any convenient height.

WITH FRILL OR GIRDLE METHOD
Make a single girdle through the bark completely around the tree at a convenient height. Wet the cut surface with undiluted or diluted solution.



Hack and Squirt



Cut stump treating

Best results are obtained if this method is used successfully in any season except during periods of heavy sap flow particularly with certain species such as maples.

STUMP TREATMENT: Spray or paint the cut surfaces of freshly cut stumps and stubs with undiluted REDEEM Herbicide. This can burn areas next to the trunk in the most vulnerable places.

NOTE: Cut surface methods may be used to treat susceptible woody species on range and permanent grass pasture land, provided no more than 2 quarts of REDEEM Herbicide are applied per acre.

B - Broadleaf Weed Control

Use REDEEM Herbicide at rates of 1/2 to 1 1/2 gallons and 1/4 to 1 pint of an agricultural surfactant in a total volume of 20 to 100 gallons per acre as a water spray mixture. Apply at any time the plants are actively growing. REDEEM at 1/2 to 1 gallon may be tank mixed with 1/2 to 1 gallon of 2,4-D 3.8 lb amine or low volatile herbicides to improve the spectrum of activity. (See surfactant recommendations listed under Woody Plant Control - Foliar Broadcast Applications.)

RANGE AND PERMANENT GRASS PASTURE IMPROVEMENT APPLICATIONS

All application methods, previously reviewed, may be used to treat susceptible weeds and brush on range and permanent grass pasture land, provided that **no more than 2 quarts of REDEEM Herbicide are applied per acre.** For control of sensitive woody species, use 2 quarts of REDEEM in combination with a 2,4-D product or other product approved for brush control on range and permanent grass pasture. High-volume foliar applications (providing better plant coverage) are more effective than lower applications. For control of sensitive woody species, use 2 quarts of REDEEM. For control of hard-to-control species, require higher rates of REDEEM may not be completely controlled.

Do not treat or newly seeded grasses until grass has established a good root system and is tillering. Do not spray pastures containing desirable broadleaf forbs, especially legumes, unless injury to such plants can be tolerated.

Grazing Restrictions: Withdraw livestock from treated forage at least 3 days before slaughter during the year of treatment. Do not graze lactating dairy animals on treated areas for one year following treatment. Do not harvest grass for hay from treated areas for one year following treatment. Do not graze areas treated with more than 2 quarts of REDEEM Herbicide per acre or harvest hay from treated areas for one year following treatment.

FOREST SITE MANAGEMENT APPLICATIONS

Single-Stem Non-Foliar Applications methods may also be used to manage forest sites or woodlots. Follow use directions listed in the "Non-Crop Area Applications - Woody Plant Control" section. A forest site woodlot is a small area of land used usually for timber production or for wildlife habitat.

Forest Site Preparation (not for conifer release): Use 2 to 3 gallons of REDEEM Herbicide and 1/4 to 1 pint of an agricultural surfactant and apply in a total spray volume of 10 to 30 gallons per acre or REDEEM at 1 to 1 1/2 gallons may be used with 1 to 2 gallons of 2,4-D 3.8 lb low volatile ester in a tank mix combination in a total spray volume of 10 to 30 gallons per acre.

NOTE: Conifers planted or naturally occurring in or adjacent to areas treated with REDEEM at less than 1 1/2 gallons per acre should be removed or monitored for damage after 3 months. Defoliation may be injured. When tank mixtures of herbicides are used for forests to prepare for a product, the herbicide should be applied to the forest site and the product should be applied within the period observed.

For forest site applications of REDEEM Herbicide use a spray volume needed to provide adequate coverage of the target site. Control usually 10 to 100 gpa by ground. To improve spray coverage of spray volumes less than 50 gpa, add an agricultural surfactant such as Ortho X-77 or Trionic at a rate of 1/4 to 1 pint per acre. Use the higher rates of surfactant for lower rates of product and lower spray volumes. Application systems should be used to prevent hazardous drift to off-target sites. Nozzles or additives that produce large droplets of spray may require higher spray volumes to maintain target control.

Directed Spray Applications for Conifer Release

Release conifers from competing hardwoods such as red maple, sugar maple, striped maple, sweetgum, red and white oaks, ash, alder, birch, aspen, and pin cherry, mix 4 to 20 ounces of REDEEM Herbicide in enough water to make 10 to 20 gallons of spray mixture. To improve spray coverage, add an agricultural surfactant such as Ortho X-77 or Trionic. The spray mixture should be directed on the foliage of the hardwoods using knapsack or backpack sprayer with flat fan nozzles or equivalent any time the hardwoods have reached full leaf size, but before autumn coloration. The nozzle of the knapsack sprayer should be at least 6 feet from the target. The backpack sprayer should be at least 6 feet from the target. Direct spray away from contact with desirable foliage, particularly foliage of desirable pine.

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SPECIMEN LABEL NO. AND DATE CODE (SEE INSTRUCTIONS)
THIS IS AN INITIAL PRINTING.