



062719-00070-042999

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Systems Integration Group, Inc.

PM25

62719-70

4/29/99

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APR 29 1999

Steve A. McMaster  
DowElanco  
9330 Zionsville Road  
Indianapolis, IN 46268-1054

Dear Mr. McMaster:

Subject: Add CRP Acres  
Remedy  
EPA Registration No. 62719-70  
Your Submission Dated April 16, 1999

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

1. Submit/cite all data required for registration/-reregistration of your product under FIFRA section 3(c)(5) or 4(a) when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

- On page 4 delete the Spanish Language text. The Worker Protection Standard (WPS) only requires that the Spanish Signal Word and text appear on the front panel.

3. Submit one (1) copy of your final printed labeling before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,



for

James A. Tompkins  
Product Manager (25)  
Herbicide Branch  
Registration Division (7505C)

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(Base label):

(Logo) Dow AgroSciences LLC

# Remedy\*

**For the control of woody plants and broadleaf weeds on rangeland, and permanent grass pastures, and conservation reserve program (CRP) acres (including fence rows and non-irrigation ditch banks within these areas)**

Active Ingredient:

triclopyr: 3,5,6-trichloro-2- pyridinyloxyacetic acid,  
butoxyethyl ester ..... 61.6%

Inert Ingredients: ..... 38.4%

Total Ingredients ..... 100.0%

Contains petroleum distillates

Acid Equivalent:

triclopyr - 44.3% - 4 lb/gal

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated:**

**APR 29 1999**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
62719-90

**Keep Out of Reach of Children**

## **CAUTION PRECAUCION**

*Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)*

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### Precautionary Statements

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**Hazards to Humans and Domestic Animals**

**Keep Out of Reach of Children**

## **CAUTION PRECAUCION**

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**Harmful If Swallowed, Inhaled Or Absorbed Through Skin**

**Avoid contact with eyes, skin, or clothing. Avoid breathing mists or vapors. Avoid contamination of food. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse.**

### First Aid

**In case of skin contact:** Flush skin with plenty of water. Get medical attention if irritation persists.

**If swallowed:** Do not induce vomiting. Call a physician.

### Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water, or 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 washwaters.

### Physical or Chemical Hazards

**Combustible**—Do not use or store near heat or open flame. Do not cut or weld container.

OK

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**Refer to label booklet for ~~additional precautionary information and~~ Directions for Use, including Storage and Disposal.**

**Notice:** Read the entire label. Use only according to label directions. **Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at [www.dowagro.com](http://www.dowagro.com).

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-70

EPA Est. 464-MI-1

\*Trademark of Dow AgroSciences LLC

Dow AgroSciences LLC o Indianapolis, IN 46268 U.S.A.

## Specialty Herbicide

Net Contents\_\_gal

50619

(Datapack cover):

(Logo) Dow AgroSciences LLC

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Total Ingredients .....	100.0%

Contains petroleum distillates

Acid Equivalent:

triclopyr - 44.3% - 4 lb/gal

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Dow AgroSciences LLC o Indianapolis, IN 46268 U.S.A.

## Specialty Herbicide

Net Contents \_\_gal

(Page 1 through end):

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## Precautionary Statements

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### Hazards to Humans and Domestic Animals

## CAUTION—PRECAUCION

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### Harmful If Swallowed, Inhaled Or Absorbed Through Skin

**Avoid contact with eyes, skin, or clothing. Avoid breathing mists or vapors. Avoid contamination of food. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse.**

### First Aid

**In case of skin contact:** Flush skin with plenty of water. Get medical attention if irritation persists.

**If swallowed:** Do not induce vomiting. Call a physician.

### Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water, or 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 washwaters.

### Physical or Chemical Hazards

**Combustible—Do not use or store near heat or open flame. Do not cut or weld container.**

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## Directions for Use

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

Read all Directions for Use carefully before applying.

**Do not use for manufacturing or formulating.**

### Storage and Disposal

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**Storage:** Store above 28°F or agitate before use.

**Pesticide Disposal:** Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to applicable federal, state, or local procedures.

**Plastic Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Metal Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Consult federal, state, or local disposal authorities for approved alternative procedures.

[Editor's note: To improve label format and information flow, certain sections or paragraphs have been moved to new locations. Edits are as shown.]

## General Information

Remedy\* herbicide is recommended for the control of ~~mesquite and associated~~ listed susceptible woody plants and annual and perennial broadleaf weeds on rangelands, ~~and permanent grass pastures, and conservation reserve program (CRP) acres~~ (including fence rows and non-irrigation ditch banks within these areas). Remedy ~~herbicide~~ is an oil soluble, emulsifiable liquid product containing the herbicide triclopyr. Remedy may be applied to woody or herbaceous broadleaf plants as a foliar spray or as a basal bark or to cut stump application to woody plants. As a foliar spray, Remedy will control only herbaceous plants that have emerged from the soil or woody plants that are in full leaf at the time of application.

Small amounts of Remedy can kill or injure many broadleaf plants. To prevent damage to crops and other desirable plants, **follow all directions and precautions.**

## General Use Precautions and Restrictions

~~Apply this product only as specified on this label.~~

- Be sure that use of this product conforms to all applicable regulations.
- **In Arizona:** The state of Arizona has not approved Remedy for use on plants grown for commercial production; specifically on designated grazing areas.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- ~~Before using any recommended tank mixtures. When tank-mixing, read the~~ follow all applicable use directions, and all use precautions, and limitations on both the respective product labels.
- Many forbs (herbaceous broadleaves) are susceptible to Remedy. Do not spray pastures containing desirable forbs, especially legumes such as clover, unless injury or loss of such plants can be tolerated. However, the stand and growth of established grasses usually is improved after spraying, especially when rainfall is adequate and grazing is deferred.
- ~~Do not use on newly seeded grasses until the grass has established a good root system, shows good vigor and is tillering. Do not reseed treated areas for a minimum of three weeks after treatment.~~
- Established grasses are tolerant to this product, but newly seeded grasses may be injured until well established as indicated by tillering, development of a secondary root system and vigorous growth. Do not reseed treated areas for a minimum of three weeks after treatment.
- Do not apply Remedy directly to, or otherwise permit it to come into direct contact with cotton, grapes, peanuts, soybeans, tobacco, vegetable crops, flowers, citrus or other desirable broadleaf plants and do not permit spray mists containing it to drift onto them.
- ~~Do not permit injurious amounts of herbicide to contaminate irrigation ditches or water used for irrigation or domestic purposes. Do not apply directly to irrigation ditches or water used for irrigation or domestic purposes.~~

## Grazing and Haying Restrictions

### **Grazing or harvesting green forage:**

- 1) Lactating dairy animals  
Two quarts/acre or less: Do not graze or harvest green forage from treated area for 14 days after treatment.



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- Greater than 2 to 6 quarts/acre: Do not graze or harvest green forage until the next growing season.
- 2) Other Livestock  
 Two quarts/acre or less: No grazing restrictions.  
 Greater than 2 to 6 quarts/acre: Do not graze or harvest green forage from treated area for 14 days after treatment. **Note:** If less than 25% of a grazed area is treated, there is no grazing restriction.

#### **Haying (harvesting of dried forage):**

- 1) Lactating dairy animals  
 Do not harvest hay until the next growing season.
- 2) Other Livestock  
 Two quarts/acre or less: Do not harvest hay for 7 days after treatment.  
 Greater than 2 quarts to 4 quarts/acre: Do not harvest hay for 14 days after treatment.  
 Greater than 4 quarts/acre: Do not harvest hay until the next growing season.

#### **Slaughter Restrictions:**

Withdraw livestock from grazing treated grass or consumption of treated hay at least 3 days before slaughter. This restriction applies to grazing during the season following treatment or hay harvested during the season following treatment.

#### **Avoid Injurious Spray Drift**

Applications should be made only when there is little or no hazard from spray drift. Very small quantities of spray, which may not be visible, may seriously injure susceptible plants. Do not spray when wind is blowing toward susceptible crops or ornamental plants near enough to be injured. It is suggested that a continuous smoke column at or near the spray site or a smoke generator on the spray equipment be used to detect air movement, lapse conditions, or temperature inversions (stable air). If the smoke layers or indicates a potential of hazardous spray drift, do not spray.

**Ground Equipment:** With ground equipment, spray drift can be lessened by keeping the spray boom as low as possible; by applying 20 gallons or more of spray per acre; by the use of ~~Naleo-Trol~~ a drift control and deposition aid or its equivalent cleared for application to growing crops; by keeping the operating spray pressures at the lower end of the manufacturers recommended pressures for the specific nozzle type used (low pressure nozzles are available from spray equipment manufacturers); by spraying when the wind velocity is low (Follow state regulations). Avoid calm conditions which may be conducive to air inversions. In hand-gun applications, select the minimum spray pressure that will provide adequate plant coverage (without forming a mist). Do not apply with hollow cone-type insecticide or other nozzles that produce a fine-droplet spray. Do not use a mistblower.

**Aerial Application:** Remedy may be aerially applied by fixed wing aircraft or helicopter. For aerial applications, use a drift control system such as Microfoil or Thru-Valve boom, or use ~~Naleo-Trol~~ a drift control additive cleared for application to growing crops with conventional dispersal equipment. Keep spray pressures low enough to provide coarse spray droplets. Spray boom should be no longer than 3/4 of the rotor or wing length. Do not use a spray thickening agent with the Microfoil or the Thru-Valve booms, or other systems that cannot accommodate thick sprays. Spray only when the wind velocity is low (Follow state regulations). Avoid calm conditions which may be conducive to air inversions.

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## Mixing Directions

**Spray volume should be sufficient to obtain complete and uniform foliar coverage.** For aerial application apply at least 2 gallons of total spray volume per acre. ~~For aerial treatment of mesquite mixed with other South Texas brush species, use a minimum of 4 gallons of total spray volume per acre.~~ For ground application, apply 10 or more gallons of total spray volume per acre. Use higher spray volumes for ground or aerial application to ensure adequate coverage with increased depth and density of foliage, particularly for treatment of woody plants or as indicated in the "Treatment Recommendations" section of this label.

Remedy may be foliar applied by diluting with water or by preparing an oil-water emulsion. ~~The latter type of spray mixture performs~~ For woody plant control, an oil-water emulsion will perform more dependably under a broader range of conditions than a straight water dilution and is especially recommended for aerial applications.

### Oil-Water Emulsions

**Oil-water emulsions (1:5 ratio)** may be prepared using diesel fuel, fuel oil, or kerosene plus an emulsifier such as Sponto 712 or Triton X-100. Use a jar test to check spray mix compatibility before preparing oil-water emulsion sprays in the mixing tank.

**Ground Application:** Add oil to the spray mix at a rate of 5 to 10% of the total mix, up to a maximum of 1 gallon of oil per acre, using agricultural spray emulsifiers according to mixing instructions below.

**Aerial Application:** Use oil and water in the spray mixture in a 1:5 ratio (1 part oil to 5 parts water), up to a maximum of 1 gallon of oil per acre according to mixing instructions below.

### Water Dilutions

~~For water dilutions, add an agricultural surfactant at the manufacturer's recommended rate per 400 gallons of spray mixture~~ may be added to the spray mixture to provide improved wetting of brush and weed foliage. To help minimize spray drift, a drift control and deposition aid such as Nalco-Trol, or its equivalent, cleared for application to growing crops is recommended in all spray mixtures.

### Tank Mixing

Remedy may be applied in tank mix combination with labeled rates of other herbicides provided (1) the tank mix product is labeled for the timing and method of application for the use site to be treated; and (2) tank mixing is not prohibited by the label of the tank mix product.

### Tank Mixing Precautions:

- o Read carefully and follow all applicable use directions, precautions, and limitations on the respective product labels.
- o Do not exceed recommended application rates. If products containing the same active ingredient are tank mixed, do not exceed the maximum allowable active ingredient use rates.
- o For direct injection or other spray equipment where the product formulations will be mixed in undiluted form, special care should be taken to ensure tank mix compatibility.
- o Always perform a (jar) test to ensure the compatibility of products to be used in tank mixture.

**Tank Mix Compatibility Testing:** A jar test is recommended prior to tank mixing to ensure compatibility of Remedy and other herbicides or spray carriers. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls-up, forms flakes, sludges, jels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

**~~Spray mixtures containing Remedy should be prepared according to the following directions~~****Mixing Order:**

1. Add half the needed water to the mixing tank and start agitation.
2. Add water soluble herbicide (if used).
3. Prepare a premix of oil, emulsifier (if oil-water emulsion), and Remedy plus other oil-soluble herbicide (if used), e.g. 2,4-D ester. Continue agitation and add premix to the spray tank. **Note:** Do not allow water or mixtures containing water to get into the premix or Remedy since a thick "invert" (water in oil) emulsion may be formed that will be difficult to break. Such an emulsion may also be formed if the premix or Remedy is put in the mixing tank before the addition of water.
4. Add the remaining water. Also during final filling of the tank add ~~Nalco-Trol or equivalent~~ a drift control and deposition aid cleared for application to growing crops (if used), plus an agricultural surfactant (if a water dilution rather than an oil-water emulsion spray is used).

Continuous agitation of the spray mixture during both mixing and application is necessary to ensure spray uniformity.

**Use in Liquid Nitrogen Fertilizer Mixing with Liquid Fertilizer for Broadleaf Weed Control**

Remedy may be combined with liquid nitrogen fertilizer suitable for foliar application to accomplish weeding and feeding weed control and fertilization of grass pastures in one operation. Use Remedy in accordance with recommendations for weed control in grass pastures as given on this label. Use liquid fertilizer at rates recommended by supplier or Extension Service Specialist. **Note:** Remedy is not recommended for use with liquid fertilizer on woody plants (brush). Foliage burn caused by liquid fertilizer may reduce herbicide effectiveness on woody plants.

**Compatibility with Liquid Fertilizer:** ~~Test for mixing compatibility using desired procedure and spray mix proportions in clear glass jar before mixing in spray tank. Prior to mixing in spray tank, conduct a "jar test" for spray mixture compatibility by mixing each component in the required order and proportion in a clear glass jar. See procedure for Tank Mixing Compatibility Testing, above.~~ A compatibility aid such as Unite or Complex may be needed in some situations. **Compatibility is best with straight liquid nitrogen fertilizer solutions. Mixing with N-P-K solutions or suspensions may not be satisfactory even with the addition of compatibility aid.** Premixing Remedy with 1 to 4 parts water may help in difficult situations.

Fill in the spray tank about half-full with the liquid fertilizer, then add the herbicide with agitation and complete filling the tank with fertilizer. Apply immediately and continue agitation in the spray tank during application. ~~**Note:** Remedy is not recommended for use with liquid fertilizer on woody (brush) species. Foliage burn caused by liquid fertilizer reduces herbicide uptake and translocation.~~

**Precautions: Do not store liquid fertilizer spray mixtures.** Application with liquid fertilizer during very cold weather (near freezing) is not advisable. The likelihood of mixing or compatibility problems with liquid fertilizer increases under cold conditions.

**Note:** Do not use broadcast spray equipment used for application of Remedy for other applications to susceptible crops or desirable plants, or land planted to such plants, **unless** it has been determined that all phytotoxic herbicide residue has been removed by thorough cleaning of the equipment.

~~For best results, foliar spray applications should be made when woody plants and weeds are actively growing.~~

**Oil Mixture Sprays for Basal Treatment:** Use only diesel oil, No. 1 or No. 2 fuel oil or kerosene. When preparing oil-based spray mixtures, use either diesel fuel, No. 1 or No. 2 fuel oil, kerosene or a

commercially available basal oil. Substitute other oils or diluents only as recommended by the oil or diluent's manufacturer. When mixing with a basal oil or other oils or diluents, read and follow the use directions and precautions on the manufacturer's product label. Add Remedy to the required amount of oil in the spray tank or mixing tank and mix thoroughly. If the mixture stands over 4 hours, reagitiation is required.

## Plants Controlled by Remedy

### Woody-Plant Species Controlled Plants

alder	granjeno	poison ivy
ash	guajillo	poison oak
aspen	guava†	poplar
beech	hawthorn	saltbush (silver myrtle)†
birch	huisache ( <u>suppression</u> )	sassafras
blackberry	lantana†	sumac
blackbrush	locust	tropical soda apple
cascara	maple (except bigleaf, and	trumpet creeper†
ceanothus	vine†)	twisted acacia
cherry†	milkweed vine†	Virginia creeper†
cottonwood	oaks	wax myrtle (top growth)
dogfennel	osage orange	wild roses
dogwood	pepper vine†	willow
elderberry	persimmon, eastern	willow primrose
elm (except winged elm)		

†basal or dormant stem applications only

### Annual, Biennial and Perennial Broadleaf Weeds Controlled

black medic	mustard
burdock	plantain
chicory	<u>sericea lespedeza</u>
cinquefoil	<u>sulfur cinquefoil</u>
clover	<u>tropical soda apple</u>
curly dock	vetch
dandelion (top growth)	wild carrot (top growth)
<u>dogfennel</u>	wild violet
lambquarters	yarrow
lespedeza	

## Application Methods and Treatment Recommendations

### Rangeland and Permanent Grass Pasture

#### High-Volume Leaf-Stem-Foliar Treatment of Individual Plants Using Ground Equipment

For control of susceptible woody plants, use Remedy alone or in tank-mix combination at a concentration of 1 to 3 quarts in water the recommended rate to make 100 gallons of spray mixture. To control a broader spectrum of woody plants and broadleaf weeds, Remedy may be tank-mixed with recommended rates of other herbicides (see application rates table below), or Remedy at 1 1/2 to 3 pints as a tank-mix with 1/4 to 1/2 gallon of 2,4-D low-volatile ester, diluted to make 100 gallons of spray. Before using any

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recommended tank mixture read the directions and all use precautions on both labels. When tank-mixing, follow all applicable use directions, precautions, and limitations on the respective product labels. (See Tank-Mixing Precautions under "Mixing Directions".)

<b>Application Rates per 100 Gallons of Spray</b>			
<b>Remedy</b>		<b>Tank-Mix Product</b>	<b>Rate</b>
1-4 qt	=	=	=
1-2 qt	plus	Grazon P+D herbicide	4 qt
1-2 pt	plus	2,4-D low volatile ester herbicide	1-2 qt
1-2 qt	plus	Tordon* 22K herbicide	1-2 qt
2 qt	plus	Reclaim* <sup>1,2</sup> herbicide	2 qt

<sup>1</sup>Reclaim\* herbicide is registered for use only in Texas, Oklahoma and New Mexico.

<sup>2</sup>See directions for "Mesquite control using high volume foliar (also called leaf spray) application" below.

Depending on the size and density of the woody plants involved, apply sufficient spray volume to thoroughly wet all leaves, stems, and root collars. To minimize spray drift, select the minimum spray pressure that will provide adequate plant coverage without forming a mist and keep direct sprays no higher than brush tops of target woody plants. ~~Nalco-Trel A~~ drift control additive or equivalent cleared for application to growing crops is recommended to reduce spray drift. Before using any recommended tank mixture read the directions and all use precautions on both labels.

For best results, foliar spray applications should be made when woody plants and weeds are actively growing. Note: See "Foliar Broadcast Treatment" section for information on environmental factors influencing control results as well as recommendations concerning application timing.

In Texas, New Mexico and Oklahoma, Remedy at 1 1/2 to 3 pints per acre may be tank mixed with locally recommended rates of Grazon\* PC herbicide plus 2,4-D diluted to make 100 gallons of spray.

In Alabama, Arkansas, Georgia, Louisiana, Mississippi, New Mexico, Oklahoma and Texas, Remedy at 1 1/2 to 3 pints may be tank mixed with locally recommended rates of Grazon P+D herbicide diluted to make 100 gallons of spray.

#### Mesquite control using high volume foliar (also called leaf spray) application:

For control of mesquite infestations of low to moderate density, Remedy and Reclaim may be applied in tank-mixture to individual plants with backpack or hand-held sprayers or a vehicle-mounted sprayer with hand-held spray wand or spray gun. For individual plant treatment, use 2 quarts of Remedy in combination with 2 quarts of Reclaim per 100 gallons of total spray solution (1/2% v/v of each product). Apply in water or as an oil-water emulsion as described in "Mixing Directions". If using an oil-water emulsion, add the oil at a rate of 5% of the total spray volume. Apply as a complete spray-to-wet foliar application, including all leaves. Thorough coverage is necessary for good results, but it is not necessary to spray to the point of runoff. Do not apply when mesquite foliage is wet. The total amount of Reclaim applied should not exceed 1 1/3 pints per acre. For best results, follow information given below concerning effect of environmental conditions and application timing on control. This application method works best for brush less than 8 feet tall, since efficient treatment and thorough coverage of taller brush is difficult to achieve with this method. To minimize drift, select a spray nozzle and pressure that will provide good coverage while forming a coarse spray. Additionally, drift may be reduced by using the minimum pressure necessary to obtain plant coverage without forming a mist and by directing sprays no higher than tops of target plants. If desired, a spray dye may be added to the spray mixture to mark the treated plants.

## Foliar Broadcast Treatment Using Aerial or Ground Equipment

### Environmental conditions and application timing influence brush and weed control results.

**General:** For best results, foliar applications should be made when woody plants and weeds are actively growing. For woody species, make applications after the rapid growth period of early spring when leaf tissue is fully expanded and terminal growth has slowed. Brush regrowth should be at least 4 ft. in height prior to treatment to insure adequate foliage for herbicide absorption. Adequate soil moisture before and after treatment as well as the presence of healthy foliage at the time of application are important factors contributing to optimal herbicidal activity.

**Mesquite:** The herbicidal response of mesquite is strongly influenced by foliage condition, stage of growth and environmental conditions. For best results, apply when new growth foliage has turned from light to dark green, when the soil temperature is above 75°F at a depth of 12 to 18 inches, and soil moisture is adequate for plant growth. Application should be made within 60 days after the 75°F minimum soil temperature at the 12 to 18 inch depth has been reached. Product performance may be adversely affected if application is made before mesquite foliage has turned from light to dark green or if foliage has been injured or removed by late frost, insects, hail or plant diseases. Do not treat if mesquite exhibits new (light green) terminal growth in response to recent heavy rainfall during the growing season. Rate of soil warm-up at the 12 to 18-inch depth may vary with soil texture and drainage. Coarse-textured (sandy) soils warm up sooner than fine-textured (clay) soils and dry soils warm up more quickly than wet soils. Mesquite regrowth should be at least 4 ft. in height prior to treatment to insure adequate foliage for herbicide absorption.

**Environmental conditions influence brush control results.** Adequate soil moisture before and after treatment is essential for optimal herbicidal activity and the presence of good foliage conditions and proper timing is critical to obtaining optimal brush control. For best results, do not initiate spraying of mesquite until the soil temperature at a depth of 12 inches reaches a minimum of 75 degrees F. (Research has shown a soil temperature of 78 to 83 degrees F at a depth of 12 to 15 inches to be optimum for good control of mesquite.) Do not spray when new, light green terminal (tip) growth is present on mesquite. Light green foliage is normally present during the rapid growth period in the spring and may occur later in the season following significant rainfall event. Make applications only after light green terminal growth has slowed and leaf color has changed to a darker green color. Foliage damaged by late frost, insects, plant disease or hail should not be treated until good foliage conditions are reestablished. For other woody species, make applications after the rapid growth period of early spring when leaf tissue is fully expanded and terminal growth has slowed.

### Mesquite Only

Apply Remedy at 1/2 to 1 pint per acre in combination with 2/3 to 1 1/3 pint per acre of Reclaim. See label for Reclaim for additional treatment recommendations and information on mesquite control. In Texas, New Mexico and Oklahoma, use 1 pint of Remedy per acre alone for mesquite control. Rates of 1/2 to 1 pint per acre may be used in New Mexico to treat mesquite. Where pricklypear is not a target species, a tank mix of 1/2 pint of Remedy with 2/3 pint of Reclaim\* herbicide will provide a much higher percent control of mesquite. Apply aerially as a 4:5 oil:water emulsion in 2 to 4 or more gallons total volume per acre or in 10 to 20 or more gallons total volume per acre using ground equipment. Use a maximum of 1 gallon of oil per acre for aerial or ground application.

### Mesquite and Pricklypear Cactus

In Texas, New Mexico and Oklahoma where Where pricklypear cactus is a target species in association with mesquite, apply a tank mix of 1/2 to 1 pint of Remedy with 1 to 2 pints of Gazon PG Tordon 22K per acre. (The 2 pint per acre rate of Gazon PG Tordon 22K will provide a higher and more uniform plant kill of pricklypear.) Tordon 22K may also be applied in combination with Reclaim to control pricklypear while providing improved control of mesquite. See labels for Tordon 22K and Reclaim for additional information

and treatment recommendations. Apply aerially as a 4:5 oil:water emulsion in ~~2 to 4~~ 4 or more gallons total volume per acre or in ~~10 to 20~~ or more gallons total volume per acre using ground equipment. If mesquite canopy is dense, use higher spray volumes ~~the highest recommended spray volume~~. Use a maximum of 1 gallon of oil per acre for aerial or ground application.

### **South Texas Mixed Brush (Mesquite, Pricklypear Cactus, Blackbrush, Twisted Acacia and Granjeno)**

Use 1 to 2 pints of Remedy in a tank mix with 2 pints of ~~Grazer-PC~~ Tordon 22K per acre where pricklypear is a problem or with 2/3 - 1 1/3 pints of Reclaim per acre where mesquite is the prevalent species. Remedy will contribute to control of non-legume species such as granjeno and oaks. However, where woody legume species are predominate Tordon 22K at 2 pints per acre may be applied in combination with Reclaim at 2/3 to 1 1/3 pints per acre for improved control. See labels for Tordon 22K and Reclaim for additional information and recommendations. Apply aerially in a 4:5 oil:water emulsion in 4 or more gallons total volume per acre or in ~~15 to 25~~ or more gallons total volume per acre using ground equipment. Use a maximum of 1 gallon of oil per acre for aerial or ground application. The use of an oil:water emulsion is critical and good spray coverage is essential for acceptable brush control.

### **Sand Shinnery Oak Suppression**

In Texas, New Mexico and Oklahoma, apply Remedy alone at a rate of 1/2 to 2 pints per acre for suppression of shinnery oak growing on sandy soils. Grass response following suppression may be impressive where rainfall is adequate. Grazing deferment following application together with proper grazing management is recommended to allow for the reestablishment of grass stands.

### **Post Oak and Blackjack Oak - Regrowth Stands**

Apply in the early-late spring (May) to early summer (June-July) when oak leaves are fully developed (expanded). Use 2.0 quarts of Remedy alone or in tank mix combination with 0.5 to 1.0 pints of 2,4-D low-volatile ester herbicide per acre. Apply in an oil:water emulsion or water surfactant dilution (see mixing instructions) in sufficient total volume per acre to assure thorough coverage; usually 5 gallons per acre or more by fixed-wing aircraft or helicopter or 15 to 25 gallons per acre by ground equipment. Use a maximum of 1 gallon of oil per acre for aerial or ground application. Lower rates may be used for suppression only. Control will require at least 3 consecutive treatments.

**Note:** Regrowth plants have a large root mass relative to top growth when compared to undisturbed plants. In order for top growth to intercept and translocate enough herbicide to control the roots, broadcast treatment should be delayed until top growth is at least four feet tall.

**High volume foliar treatment:** For regrowth less than four feet tall, apply 2 quarts of Remedy per 100 gallons of water and 2 quarts of Ag surfactant alone or in tank mix combination with 1 gallon of Grazer P+D or 1 quart of ~~Grazer-PC~~ Tordon 22K. Apply as a high volume leaf-stem treatment to individual plants using ground equipment.

### **Post Oak and Blackjack Oak - Mature Stands**

For control of mature stands (greater than 5 feet tall), apply Remedy at 2 quarts per acre in early-late spring (May) to early summer (June - July) when oak leaves are fully developed (expanded). Understory species such as winged elm, buckbrush, tree huckleberry and ash occurring in some areas will not be controlled (only suppressed or defoliated) by Remedy alone. Where these understory species occur, control may be improved by tank mixing 2 quarts of Remedy with 1 quart of ~~Grazer-PC~~ Tordon 22K or 4 quarts of Grazer P+D per acre. For best results, apply as a 4:5 oil:water emulsion in a total volume of 5 gallons per acre or more by fixed-wing aircraft or helicopter.

**Other Susceptible Woody Plants**  
**(See Listing of Woody Plants Controlled by Remedy)**

Use 2 to 4 pints of Remedy in enough water to make a minimum of 10 gallons of total spray per acre, alone or in combination with 2 to 3 quarts of 3.8 lb/gal 2,4-D low volatile ester or amine formulation. When hard-difficult-to-control species such as ash, choke cherry, elm, maple or oaks are prevalent, and during applications made when plants are mature late in the summer or during drought conditions, use the higher rates of Remedy, alone or with 2,4-D. Remedy may also be applied in tank-mixture with Grazon P+D or Tordon 22K for increased control of certain species. See labels for Grazon P+D and Tordon 22K for additional information and treatment recommendations. Apply aerially in 4 or more gallons total volume per acre or in 10 or more gallons total volume per acre using ground equipment. High volume foliar or conventional basal bark treatment methods can also provide adequate control under these conditions. For best results on blackberry, apply during or after bloom.

For Kudzu management of kudzu, apply Remedy at 1 quart per acre. Repeat application may be necessary to achieve desired level of control.

**Susceptible Broadleaf Weeds**  
**(See Listing Of Annual, Biennial And Perennial Broadleaf Weeds Controlled by Remedy)**

**General:** Use Remedy at rates of 2 pints per acre in a water spray. —minimum total volume of 10 gallons per acre as a water spray mixture. Apply as a broadcast spray in a total volume of 10 or more gallons per acre by ground equipment or aerially in a total volume of 2 or more gallons per acre. Apply at anytime the weeds are actively growing. Remedy at 1/2 to 3 pints may be tank-mixed with 1 to 2 quarts of 3.8 lb/gal 2,4-D amine or low volatile ester.

**Recommendations for Specific Broadleaf Weeds:**

<u>Weeds Controlled</u>	<u>Rate per Acre</u>	<u>Specific Use Recommendations</u>
<u>sericea lespedeza</u>	<u>1-2 pt</u>	<u>For best results, apply after maximum foliage development in the late spring to early summer, but prior to bloom</u>
<u>sulfur cinquefoil</u>	<u>1-2 pt</u>	<u>For best results, apply to plants in the rosette stage</u>
<u>tropical soda apple</u>	<u>2 pt</u>	<u>Apply when tropical soda apple plants reach the first flower stage. For best results, apply in a total spray volume of 40 gallons per acre using ground equipment. An agricultural surfactant may be added at the manufacturer's recommended rate to provide more complete wetting and coverage of the foliage. Spot treatments may be used to control sparse plant stands. For spot treatment use a 1 to 1.5% solution of Remedy in water (1 to 1½ gallons of Remedy in 100 gallons total spray mixture) and spray the entire plant to completely wet the foliage.</u>

In Florida, control of tropical soda apple may be improved by using the following management practices:

- Mow plants to a height of 3 inches every 50 to 60 days or whenever they reach flowering. Continue the mowing operation through April.
- In late May to June (50 to 60 days after the April mowing) apply Remedy as a broadcast treatment as recommended above.
- Use spot treatment as recommended above to control any remaining plants or thin stands of plants that germinate following a broadcast treatment.

[Editor's note: The following deleted sections move to the "General Information" portion of the label.]

**Use in Liquid Nitrogen Fertilizer**

~~Remedy may be combined with liquid nitrogen fertilizer suitable for foliar application to accomplish weeding and feeding of grass pastures in one operation. Use Remedy in accordance with recommendations for weed control in grass pastures as given on this label. Use liquid fertilizer at rates recommended by supplier or Extension Service Specialist. Test for mixing compatibility using desired~~



~~procedure and spray mix proportions in clear glass jar before mixing in spray tank. A compatibility aid such as Unite or Compex may be needed in some situations. **Compatibility is best with straight liquid nitrogen fertilizer solutions. Mixing with N-P-K solutions or suspensions may not be satisfactory even with the addition of compatibility aid.** Premixing Remedy with 1 to 4 parts water may help in difficult situations.~~

~~Fill in the spray tank about half full with the liquid fertilizer, then add the herbicide with agitation and complete filling the tank with fertilizer. Apply immediately and continue agitation in the spray tank during application. **Note:** Remedy is not recommended for use with liquid fertilizer on woody (brush) species. Foliage burn caused by liquid fertilizer reduces herbicide uptake and translocation.~~

~~**Precautions: Do not store liquid fertilizer spray mixtures.** Application with liquid fertilizer during very cold weather (near freezing) is not advisable.~~

~~**Note:** Do not use broadcast spray equipment for other applications to susceptible crops or desirable plants, or land planted to such plants, **unless** it has been determined that all phytotoxic herbicide residue has been removed by thorough cleaning of the equipment.~~

~~For best results, foliar spray applications should be made when woody plants and weeds are actively growing.~~

### Individual Plant Treatment Single Stem Non-Foliar Applications

#### **Conventional Basal Spray**

~~For control of woody species such as mesquite and huisache, mix 2 gallons of Remedy with 98 gallons of diesel fuel (8 fluid oz/3 gallons of diesel for small sprayers). Spray basal 15 to 20 inches of plant to the point of runoff accumulation at the soil surface. Thorough wetting of the indicated area is necessary for good control. Old or rough bark requires more spray than smooth young bark. Spray at **anytime** of the year when soil is dry, but best results for mesquite will be achieved when temperatures are high and soil is dry enough to be withdrawn from the base of the plant. Do not apply when snow or water prevent spraying to the ground line. Follow-up treatment may be needed in two or more years to control escaped woody plants, especially root sprouting species such as sumac. For oil-water mixture applications, mix 2 gallons of Remedy herbicide, 25 gallons of oil and one-half gallon of Sponto 712, and add to 72.5 gallons of water as indicated under mixing directions. Treat as above. For best results with oil/water mixtures, treat only stems 2 inches or less in diameter.~~

~~(Editor's Note: Order of treatment description has been changed.)~~

#### **Low Volume Basal Bark Treatment (Also called Stem Spray Method)**

~~Susceptible woody plants such as mesquite, huisache, red maple, red and white oak, birches and aspen, with stems less than 6 inches in basal diameter, can be controlled by low volume basal applications of Remedy. Mix 20 to 30 gallons of Remedy in enough oil to make 100 gallons of total spray mixture. Apply with a backpack or knapsack (but not with a mistblower) using low pressure and a solid cone or flat-fan nozzle. Spray the basal parts of the brush and tree trunks to a height of 12 to 15 inches from the ground in a manner which thoroughly wets the lower stem, including the root collar area, but not to the point of runoff. Herbicide concentration should vary with size and susceptibility of species treated. Apply at any time, including the winter months, except when snow or water prevent spraying to the ground line.~~

#### **Streamline Basal Bark Treatment**

~~To control or suppress susceptible woody plants such as mesquite, huisache, red maple, white and red oak, elbowbush, greenbriar, hackberry, pricklyash, yaupon and wild grape, mix 25 to 30 gallons of Remedy with 10% penetrant such as Cidekick in enough oil to make 100 gallons of spray mixture. Streamline basal bark treatments are most effective on stems less than 4 inches in basal diameter. Apply~~

with a backpack or knapsack sprayer using equipment which provides a directed straight stream spray. Apply the spray in a 2 to 3 inch wide band to one side of stems less than 3 inches in basal diameter. Direct the spray to a point approximately 12 to 24 inches above the ground. Treat both sides of stems which are 3 or more inches in basal diameter. Better control is achieved when spray is applied to thin juvenile bark and above rough thickened mature bark. Vary herbicide concentration with size and susceptibility of the brush being treated. Apply at any time, including winter months, except when snow or water prevents spraying to the desired height above the ground level. **Note:** Best results with some hardwood species occur when applications are made from approximately 6 weeks prior to leaf expansion in the spring until approximately 2 months after leaf expansion is completed.

### **Treatment of Cut Stumps in California**

To control resprouting, apply undiluted Remedy to wet the area adjacent to the cambium and bark around the entire circumference of freshly cut stumps.

Treatments may be applied throughout the year; however, control may be reduced with treatment during periods of moisture stress as in late summer. Stumps should be cut so that they are approximately level to facilitate uniform Remedy coverage. Use an applicator which can be calibrated to deliver the small amounts of material required.

### **Cut Stump Treatment**

To control resprouting of freshly cut stumps of susceptible species, mix 20 to 30 gallons of Remedy in enough oil to make 100 gallons of spray mixture. Apply with a backpack or knapsack sprayer using low pressures and a solid cone or flat fan nozzle. Spray the sides of the stump and the outer portion of the cut surface, including the cambium in a manner which thoroughly wets the stem and root collar area, but not to the point of runoff. Spray mixture concentration should vary with the size and susceptibility of species treated. Apply at any time, including in winter months, except when snow or water prevent spraying to the ground line.

### **Dormant Stem Treatment**

Mix 3 to 6 quarts of Remedy in enough oil to make 100 gallons of spray. Apply with knapsack or power spraying equipment, using low pressure (20-40 psi). Treat anytime when brush is dormant and most of the foliage has dropped. Do not apply when snow or water prevent spraying to the ground line. Thoroughly wet the upper parts of the stems and use the remainder needed to wet the lower 12 to 15 inches above the ground to the point of run-off. For root suckering species such as sumac, sassafras and locust, also spray the ground under the plant to cover small root suckers which may not be visible above the soil surface. For oil-water mixture application, mix 6 quarts of Remedy, 25 gallons of oil and 1.5 gallons of an approved agricultural spray emulsifier such as Sponto 712 or Triton X-100 as indicated in the mixing directions. Treat as above.

### **Thinline Basal Bark Treatment**

Control of susceptible woody plants such as red maple, blackberry, dogwood, red and white oak, with stems less than 6 inches in diameter, can be achieved with applications of undiluted Remedy in a thin stream to all sides of the stems about 6 inches above the base of the plants. The stream should be directed horizontally to apply a narrow band of Remedy around each stem or clump. From 2 to 15 ml of chemical is required for treatment of single stems and from 25 to 100 ml to treat clumps of stems. Use an applicator metered or calibrated to deliver the small amounts required.

### **Growing Point and Leaf Base (Crown) Treatment of Yucca**

Prepare a 2% v/v solution of Remedy in diesel or fuel oil (13 oz of Remedy in 5 gallons of spray mixture). Thoroughly wet the center of the plant including growing point and leaf bases to the soil surface. Complete coverage of leaves is not necessary.

### **Treatment of Conservation Reserve Program (CRP) Acres (Established Permanent Grass Stands)**

Use Remedy on CRP acres only after perennial grasses are well established (see precaution for newly seeded grasses under "General Use Precautions").

**Restrictions:** When applying to CRP lands, follow all applicable state and federal regulations. Follow the most severe grazing restriction imposed by the pesticide label or by the USDA Acreage Conservation Reserve Program. After that time period, follow local (CRP) guidelines regarding cropping and haying restrictions. Do not use Remedy if damage or loss of existing legumes or other desirable broadleaf plants cannot be tolerated.

**Broadcast Application (Ground or Air):** For control of listed broadleaf weeds, apply Remedy as a broadcast spray at 1 - 2 pints/acre or up to 1 1/2 quarts per acre for deep-rooted perennial broadleaf and susceptible woody species. Use a total spray volume of 10 or more gallons per acre for ground broadcast or 2 or more gallons per acre by air. For other woody plant treatment methods, including high volume foliar, basal bark or cut stump treatment, refer to the preceding "Application Methods and Treatment Recommendations" for appropriate use directions.

On CRP acres, apply no more than 1 1/2 quarts/acre of Remedy per growing season.

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1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used

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