

# Specimen Label



# Reclaim\*

## Specialty Herbicide

\*Trademark of Dow AgroSciences LLC

**For the control of mesquite and certain associated woody species on rangeland and permanent grass pastures only in Arizona, New Mexico, Oklahoma and Texas**

### Active Ingredients:

clopyralid: 3,6-dichloro-2-pyridinecarboxylic acid, monoethanolamine salt ..... 40.9%

Inert Ingredients ..... 59.1%

Total Ingredients ..... 100.0%

### Acid Equivalent:

3,6-dichloro-2-pyridinecarboxylic acid - 31% (3 lb/gal)

EPA Reg. No. 62719-83

### 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

**Causes Moderate Eye Irritation • Harmful If Inhaled Or Absorbed Through Skin**

**Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.**

### First Aid

**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 eye. 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.

**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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

### Environmental Hazards

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 cleaning equipment or disposing of equipment washwaters. Do not contaminate water used for irrigation or domestic purposes.

Clopyralid is a chemical which can travel (seep or leach) through soil and under certain conditions contaminate groundwater which may be used for irrigation or drinking purposes. Users are advised not to apply clopyralid where soils have a rapid to very rapid permeability throughout the profile (such as loamy sand to sand) and the water table of an underlying aquifer is shallow, or to soils containing sinkholes over limestone bedrock, severely fractured surfaces, and substrates which would allow direct introduction into an aquifer. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

### Physical or Chemical Hazards

**Combustible. Do not use or store near heat or open flame.**

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on this label. If terms are unacceptable, return at once unopened.**

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.

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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.

## Storage and Disposal

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

**Pesticide Storage:** If stored below 28°F, warm to at least 40°F and agitate thoroughly before use.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal (Metal):** Do not reuse container. 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.

**Container Disposal (Plastic):** Do not reuse container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Reclaim\* herbicide is a highly active, water-soluble liquid product for control of mesquite and certain associated woody species, such as catclaw acacia and twisted acacia, on rangeland and permanent grass pastures in Arizona, New Mexico, Oklahoma and Texas. Very small amounts of this product can kill or injure sensitive broadleaf plants. To prevent accidental damage to crops and other desirable plants, follow all directions and precautions. This product affects plants directly through foliage and indirectly by root uptake from treated soil.

## Precautions and Restrictions

Use directions in Dow AgroSciences supplemental labeling may supersede directions or limitations in this labeling.

**Maximum Application Rate:** Do not apply more than 1 1/3 pint per acre of Reclaim per annual growing season.

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

**Rotation to Broadleaf Crops:** Do not plant broadleaf crops in treated areas until an adequately sensitive bioassay shows that clopyralid is no longer detectable in the soil.

**Field Bioassay Instructions:** In fields previously treated with this product, plant short test rows of the intended rotational crop across the original direction of application in a manner to sample field conditions such as soil texture, soil pH, drainage, and any other variable that could affect the seed bed of the new crop. Field bioassay at any time prior to planting of the intended rotational crop. Observe the test crop for herbicidal activity, such as poor stand (effect on seed germination), chlorosis (yellowing), and necrosis (dead leaves or shoots), or stunting (reduced growth). If herbicidal symptoms do not occur, the test crop can be grown. If there is apparent herbicidal activity, wait 1 year before repeating bioassay or plant a crop tolerant to clopyralid such as barley, canola (rapeseed), grasses, field corn, oats, sugar beets, or wheat.

**Do not contaminate water intended for irrigation or domestic purposes.** To avoid injury to crops or other desirable plants, do not treat or allow spray drift to fall onto banks or bottoms of irrigation ditches or other channels that carry water that may be used for irrigation purposes.

**Tank Mixtures:** Observe the label of other products used in tank mixtures and follow all applicable label directions. If directions on this label and tank mix partners differ, follow the most restrictive label directions.

**Removal of Woody Plants Following Treatment:** To maximize woody plant control, do not disturb treated plants or remove by mechanical means or by fire for at least 1 year after application.

**Grazing:** There are no restrictions on grazing of treated areas following application of Reclaim at labeled rates. Hay harvest is not considered to be feasible for at least 1 year following application of Reclaim because of standing woody plants.

**Do not spray pastures if injury to existing forage legumes or other desirable broadleaf plants cannot be tolerated.** Reclaim may injure or kill legume and certain other broadleaf plants. However, the stand and growth of established perennial grasses is usually improved after spraying, especially when rainfall is adequate and grazing is deferred.

**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.

## Avoiding Injury to Non-Target Plants

This product can affect susceptible broadleaf plants directly through foliage and indirectly by root uptake from treated soil. Therefore, do not apply Reclaim directly to, or allow spray drift to come into contact with, vegetables, ornamentals, various susceptible broadleaf crops, or other susceptible desirable non-target plants. Small areas of new legume seedlings should be established prior to seeding more extensive areas in order to determine if phytotoxic residues are present in the soil of previously treated areas at levels that could inhibit legume establishment.

Do not use plant materials from treated areas or manure from animals grazing treated areas for composting or mulching of desirable susceptible broadleaf plants or apply such materials to land used for growing broadleaf crops, ornamentals, orchards, or other susceptible desirable plants. Plant materials or manure may contain enough clopyralid to cause injury to susceptible plant species.

## Avoid Spray Drift

Avoid spray drift since very small quantities of the spray, which may not be visible, may severely injure susceptible crops during active growth or dormant periods. Use coarse sprays to minimize drift. To aid in further reducing drift, a drift control or deposition agent suitable for agricultural use may be used with this product. If used, follow all use recommendations and precautions on the product label.

**Ground Application:** With ground equipment, spray drift can be lessened by keeping the spray boom as low as possible; by applying 10 gallons or more of spray per acre; by keeping the operating spray pressures at the manufacturer's minimum recommended pressures for the specified nozzle type used (low pressure nozzles are available from spray equipment manufacturers); and by spraying when the wind velocity is low (follow state regulations). Avoid application under completely calm conditions which may be conducive to air inversion. In hand-gun applications, select the minimum pressure required to obtain adequate plant coverage without forming a mist. **Do not** apply with a mist blower.

**Aerial Application:** With aircraft, drift can be lessened by using straight stream nozzles directed straight back; by using a spray boom no longer than 3/4 of the rotor or wing length of the aircraft; by using drift control systems or drift control additives, and by keeping spray pressures low enough to provide coarse spray droplets. Do not use a thickening agent with the Microfoil or the Thru-Valve booms, or other systems which 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.

**Do not apply by aircraft when an air temperature inversion exists.** Such a condition is characterized by little or no wind and with lower air temperature near the ground than at higher levels. The use of a smoke device on the aircraft or continuous smoke column at or near the site of application will indicate air direction and velocity, and whether a temperature inversion is present, as indicated by horizontal layering of the smoke.

#### **Sprayer Clean-Out**

To avoid injury to desirable plants, equipment used to apply Reclaim should be thoroughly cleaned before reusing to apply any other chemicals.

1. Rinse and flush application equipment thoroughly after use at least 3 times with water. Dispose of rinse water in non-cropland area away from water supplies.
2. During the second rinse, add 1 qt of household ammonia for every 25 gal of water. Circulate the solution through the entire system so that all internal surfaces are contacted (15-20 minutes). Let the solution stand for several hours, preferably overnight.
3. Flush the solution out of the spray tank through the boom.
4. Rinse the system twice with clean water, recirculating and draining each time.
5. Remove nozzles and screens and clean separately.

#### **Mixing Instructions**

**Water Dilution -** To prepare a water dilution of Reclaim:

1. Add 3/4 of the required spray volume to the spray tank and start agitation.
2. Add the required amount of Reclaim.
3. Add any surfactants, crop oils, or other adjuvants according to manufacturer's label.
4. Add any spray thickening agent, if needed to control drift, according to the manufacturer's label.
5. Agitate during final filling of the spray tank and maintain sufficient agitation during application to ensure uniformity of the spray mixture.

**Note:** Allow time for thorough mixing of each spray ingredient before adding the next. If allowed to stand after mixing, agitate spray mixture before use.

#### **Oil-Water Emulsion**

Spray mixtures prepared as oil-water emulsions perform more dependably than water or water plus surfactant dilutions. The oil used may be diesel fuel, fuel oil or kerosene. For aerial application, add oil to the spray mix at the ratio of 1 part oil to 5 parts water, using an appropriate agricultural spray emulsifier such as Sponto 712 or Triton X-100 according to the manufacturer's recommended rate. For ground application, add oil to the total spray mix at the rate of 5 to 10 percent of total volume up to a maximum of 1 gal of oil per acre. **Do not use more than 1 gal of oil per acre for ground or aerial application.**

Prior to large scale batch mixing, conduct a "jar test" for spray mixture compatibility by mixing each component in the required order and proportion in a clear glass jar. Close the jar and agitate the mixture until evenly dispersed. Use of a compatibility agent is indicated if components of the mixture do not disperse readily or do not remain dispersed after mixing. **Note:** Agitation in the spray tank must be vigorous to compare with jar test agitation.

#### **Suggested Mixing and Application Procedure**

To insure proper mixing, use the following procedure and maintain continuous, vigorous mechanical, jet or by-pass agitation during the entire mixing process:

1. Add 1/2 the amount of water to be used to the spray mixing tanks.
2. Add the amount of Reclaim required for the total volume of spray being mixed.
3. Required amounts of oil and emulsifier must be premixed. Refer to the emulsifier manufacturer's label for use directions; however, the amount of emulsifier should be confirmed in a preliminary jar test. With agitation operating, add the oil-emulsifier premix slowly to the mixing tank.
4. Finally, add the remaining amount of water required to bring the spray batch to the desired volume. If using a drift control additive, meter this ingredient into the water being added during this final filling stage and check spray mixture for complete dispersion.
5. Maintain agitation in the spray tank during application.

#### **Rangeland and Permanent Grass Pastures**

Apply Reclaim as a coarse low pressure spray using ground equipment or aircraft. Use sufficient spray volume to provide uniform coverage of target vegetation.

#### **Mesquite Control**

**Timing and Factors in Control:** 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.

The herbicidal symptoms of mesquite treated with Reclaim are often different from those resulting from application of other herbicides. In some years, complete brownout and leaf drop of treated mesquite may be delayed and not occur before the first frost. Other herbicidal symptoms often observed could include discoloration and rupture and/or "bleeding" of bark on branches and trunks.

Reapplication during the same growing season is not recommended. Re-treatment will not be effective until woody plants have developed sufficient new foliage to intercept the spray and provide uptake adequate to control the plant when translocated to the root system. Following mechanical removal, regrowth mesquite should be at least 4 feet tall before application of Reclaim.

Control of rangeland brush or weeds may be unsatisfactory under adverse growing conditions such as severe drought stress.

**Broadcast Ground or Aerial Application:** Use Reclaim alone or in combination with Remedy\* herbicide or Tordon\* 22K herbicide as recommended in the table below. See the General Information section for additional information.

Brush Species	Application Rates (pint/acre)	Specific Use Recommendations
mesquite	1 1/3 Reclaim or 2/3 - 1 1/3 Reclaim plus 1/2 - 1 Remedy or 2/3 - 1 1/3 Reclaim plus 2 Tordon 22K	See Timing and Factors in Control section for information on treatment of mesquite. Apply as a water spray or oil-water emulsion (see Mixing Instructions) in a total spray volume of 4 or more gal per acre by air or 10 or more gallons per acre by ground application using higher spray volumes with increasing brush density and height. <b>Note:</b> Where control of pricklypear cactus is desired, the tank mixture of Reclaim and Tordon 22K should be used.
South Texas mixed brush, including mesquite, pricklypear, blackbrush, twisted acacia, catclaw acacia, granjeno and guajillo	2/3 - 1 1/3 Reclaim plus 2 of Tordon 22K	See Timing and Factors in Control section of the label for information on treatment of mesquite. Apply in a spray volume of 4 or more gal per acre by air or 20 or more gallons per acre by ground application using higher spray volumes with increasing brush density and height. For best results, apply as an oil-water emulsion. <b>Note:</b> Where non-legume species such as granjeno, oaks and hackberry predominate, Remedy at 1 to 2 pt/acre may be substituted for Reclaim in the tank mixture with Tordon 22K to improve control (see label for Remedy.)

**Mesquite Control in Stands of Live Oak:** For the control of mesquite growing within stands of live oak, apply Reclaim alone at 1 1/3 pt per acre. Apply only as a water dilution containing surfactant (0.25% v/v) at a total spray volume of 4 or more gal per acre aerially. Live oak over-sprayed with Reclaim may show a 10 to 20 percent canopy reduction the year of treatment but will recover. Application of Reclaim in tank mix combination with other herbicides may result in increased injury to live oak.

**Individual Plant Treatment - Leaf Spray Method:** For control of mesquite infestations of low to moderate density, Reclaim may be applied 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 Reclaim in combination with 2 qt of Remedy per 100 gal of total spray solution (1/2% v/v of each product), or use Reclaim alone at 3 qt per 100 gal of total spray solution. Apply in water or as an oil-water emulsion as described in Mixing Instructions. 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. The total amount of Reclaim applied should not exceed 1 1/3 pt per acre. For best results, follow information given previously in Timing and Factors in Control section and do not spray when mesquite foliage is wet. 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.

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### Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.

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### Warranty Disclaimer

Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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### **Inherent Risks of Use**

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It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

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### **Limitation of Remedies**

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The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow AgroSciences' election, one of the following:

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

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case Dow AgroSciences be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer, Inherent Risks of Use, and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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Label Code: D02-106-008

Replaces Label: D02-106-007

LOES Number: 010-00089

EPA-accepted 03/14/03

#### **Revisions:**

1. Revised First Aid and Precautionary Statements.
2. Revised Tank Mixtures.