

75147-2

6/13/2003

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
75147-2

Date of Issuance: JUN 13 2003

Term of Issuance:
Conditional

NOTICE OF PESTICIDE:
 Registration
 Reregistration
(under FIFRA, as amended)

Name of Pesticide Product:
AgValue Clopyralid
Brush Speciality
Herbicide

Name and Address of Registrant (include ZIP Code):

AgValue-Clopyr, LLC
1124 N. Chinowth Street
Visalia, CA 93291

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/ reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. Add the phrase "EPA Registration No. 75147-2" to your label before you release the product for shipment.
3. Submit the results of the one year storage stability and corrosion characteristics studies upon completion.
4. Submit one (1) copy of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

Signature of Approving Official:

Joanne J. Miller

Date:

JUN 13 2003

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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 constitutes acceptance of these conditions.

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

Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505C)

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ACCEPTED
JUN 13 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 75147-2



CLOPYRALID BRUSH

Specialty Herbicide

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. 75147-

EPA Est. No. 27429-GA-1

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.)

For 24-Hour Emergency Contact, call CHEMTREC (1-800-424-9300)

Net Contents: 2.5 gallons

FIRST AID

- | | |
|--------------------------------|--|
| If in eyes: | <ul style="list-style-type: none"> • 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 on skin or clothing: | <ul style="list-style-type: none"> • 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.

See side panel for additional precautionary statements

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Causes eye Injury. 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.

Environmental Hazards

Do not contaminate water by cleaning of equipment or disposal of waste. Do not contaminate water used for irrigation or domestic purposes. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

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 that 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

Do not use or store near heat or open flame.

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

In case of emergency endangering health or the environment involving this product, call 800-424-9300. If you wish to obtain additional product information, visit our web site at www.agvalue.net.

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

DIRECTIONS FOR USE

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 allow people or pets to enter treated areas until spray has dried.

Storage and Disposal

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

GENERAL INFORMATION

CLOPYRALID BRUSH 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 injury 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

Maximum Application Rate: Do not apply more than 1 1/3 pint per acre of CLOPYRALID BRUSH 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 one 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 label of other products used in tank mixtures and follow all applicable label recommendations.

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

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

Do not spray on pastures if injury to existing forage legumes or other desirable broadleaf plants cannot be tolerated. CLOPYRALID BRUSH 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.

Advisory Statements

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 CLOPYRALID BRUSH 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 CLOPYRALID BRUSH should be thoroughly cleaned before reusing to apply any other chemicals.

1. Rinse and flush applications equipment thoroughly after use at least three 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 CLOPYRALID BRUSH:

1. Add 3/4 of the required spray volume to the spray tank and start agitation.
2. Add the required amount of CLOPYRALID BRUSH.
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 gallon of oil per acre. **Do not use more than 1 gallon of oil per acre for ground or aerial application.** Check the intended spray mixture with a compatibility test by adding the spray components in the desired order and proportions into a clear glass jar before mixing in the spray tank. Agitation in the spray tank must be vigorous to compare with jar test agitation. 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 half the amount of water to be used to the spray mixing tanks.
2. Add the amount of CLOPYRALID BRUSH required for the total volume of spray being mixed.
3. Required amounts of oil and emulsifier must be premixed. Refer 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

Use CLOPYRALID BRUSH in rangeland and permanent grass pastures to control mesquite and other woody species such as catclaw acacia and twisted acacia. Apply 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 CLOPYRALID BRUSH 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. Retreatment 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 CLOPYRALID BRUSH.

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

Broadcast Ground or Aerial Application: Use CLOPYRALID BRUSH 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	Specific Use Recommendations
mesquite	1 1/3 pt/acre of CLOPYRALID BRUSH or 2/3 - 1 1/3 pt/acre of CLOPYRALID BRUSH plus 1/2 - 1 pt/acre of Remedy or 2/3 - 1 1/3 pt/acre of CLOPYRALID BRUSH plus 2 pt/acre of 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 gallons per acre by air or 10 or more gallons per acre by ground application using higher spray volumes with increasing brush density and height. Note: Where control of pricklypear cactus is desired, the tank mixture of CLOPYRALID BRUSH 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 pt/acre of CLOPYRALID BRUSH plus 2 pt/acre 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 gallons 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. Note: Where non-legume species such as granjeno, oaks and hackberry predominate, Remedy at 1 to 2 pt/acre may be substituted for CLOPYRALID BRUSH 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 CLOPYRALID BRUSH alone at 1 1/3 pints per acre. Apply only as a water dilution containing surfactant (0.25% v/v) at a total spray volume of 4 or more gallons per acre aerially. Live oak over-sprayed with the CLOPYRALID BRUSH may show a 10 to 20 percent canopy reduction the year of treatment but will recover. Application of CLOPYRALID BRUSH 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, CLOPYRALID BRUSH 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 CLOPYRALID BRUSH in combination with 2 quarts of CLOPYRALID BRUSH per 100 gallons of total spray solution (1/2% v/v of each product); or use CLOPYRALID BRUSH alone at 3 quarts per 100 gallons of total spray solution. Apply in water or as 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 CLOPYRALID BRUSH applied should not exceed 1 1/3 pints per acre. For best results, follow information given previously in "Timing and Factors in Control" section and don't 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.

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.

WARRANTY DISCLAIMER

AgValue-Clopyr, LLC 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. AgValue-Clopyr, LLC MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

INHERENT RISKS OF USE

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 temperatures, 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 AgValue-Clopyr, LLC or the seller. All such risks shall be assumed by buyer.

LIMITATION OF REMEDIES

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 AgValue-Clopyr, LLC's 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

AgValue-Clopyr, LLC shall not be liable for losses or damages resulting from handling or use of this product unless AgValue-Clopyr, LLC is promptly notified of such loss or damage in writing. In no case shall AgValue-Clopyr, LLC be liable for consequential, incidental or special damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of AgValue-Clopyr, LLC or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner. Buyer accepts this product subject to the foregoing limitations of warranty and of liability.

AgValue-Clopyr, LLC of Visalia, CA