

# Star Thistle Killer

For Selective Control of  
Broadleaf Weeds in Ranchette Pastures



**ACTIVE INGREDIENT:**

Clopyralid: 3,6-dichloro-2-pyridinecarboxylic acid, monoethanolamine salt. . . . . 40.90%

**OTHER INGREDIENTS:** . . . . . 59.10%

**TOTAL:** . . . . . 100.00%

**Acid Equivalent:**

3,6-dichloro-2-pyridinecarboxylic acid . . . . . 31%, 3 lbs./gal.

EPA Reg. No. 228-491-54705

EPA Est. No. 48498-CA-1

**NET CONTENTS:** 8 oz / 236.59 mL

Distributed by:

LAWN AND GARDEN PRODUCTS, INC.

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## KEEP OUT OF REACH OF CHILDREN CAUTION - PRECAUCIÓN

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 Chemical Spill, Leak, Fire, or Exposure,  
Call CHEMTREC (800) 424-9300

For Medical Emergencies Only, Call (877) 325-1840

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION – PRECAUCIÓN:** Avoid contact with eyes, skin or clothing.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

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

#### USER SAFETY RECOMMENDATIONS

**Users Should:**

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

#### FIRST AID

**IF ON SKIN  
OR CLOTHING:**

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

#### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.

#### ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters. 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 to 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 buying or using this product, read the "Warranty Disclaimer and Limitation of Liability" elsewhere on this label.**

In case of emergency endangering health or the environment involving this product, call CHEMTREC (800) 424-9300.

#### 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 apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

**Entry Restrictions for Non-WPS Uses:** For applications to ranchette pastures, do not enter treated areas until sprays have dried. For early entry to treated areas, wear eye protection, chemical-resistant gloves made of any waterproof material, long-sleeved shirt, long pants, shoes and socks.

#### PRODUCT INFORMATION

This product is recommended for selective, postemergence control of broadleaf weeds in ranchette pastures.

#### USE PRECAUTIONS AND RESTRICTIONS

In California, the maximum application rate is 1/4 fl. oz. per 1,000 sq. ft. per annual use season.

Do not contaminate irrigation ditches or water used for irrigation or domestic purposes.

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

**Do not transfer livestock** from treated growing areas to sensitive broadleaf crop areas without first allowing 7 days of grazing on an untreated pasture. If livestock are transferred within less than 7 days of grazing untreated pasture, urine and manure may contain enough clopyralid to cause injury to sensitive broadleaf plants.

**Avoiding Injury to Non-Target Plants:** This product can affect susceptible broadleaf plants directly through foliar contact and indirectly by root uptake from soil in treated areas. Do not allow spray drift to come in contact with vegetables, flowers, tomatoes, potatoes, beans, lentils, peas, alfalfa, sunflowers, soybeans, safflower, or other desirable broadleaf crops or ornamental plants or soil where sensitive crops will be planted the same season.

Do not spray pastures if injury to existing forage legumes or other desirable broadleaf plants cannot be tolerated. STAR THISTLE KILLER 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.

**Avoid Movement of Treated Soil:** Avoid conditions under which soil from treated areas may be moved or blown to areas containing susceptible plants. Wind-blown dust containing clopyralid may produce visible symptoms, such as epinasty (downward curving or twisting of leaf petioles or stems) when deposited on susceptible plants; however, serious injury is unlikely. To minimize potential movement of clopyralid on wind-blown dust, avoid treatment of powdery dry or light sandy soils until soil is settled by rainfall or irrigation or irrigate shortly after application.

**Avoid Spray Drift:** Avoid spray drift since very small quantities of the spray, which may not be visible, may severely injure susceptible broadleaf plants during active growth or dormant periods. Use coarse sprays to minimize drift.

**Sprayer Clean-Out**

To avoid injury to desirable plants, equipment used to apply this product should be thoroughly cleaned before re-using to apply any other chemicals.

1. Rinse and flush application equipment thoroughly at least 3 times with water after use. Dispose of rinse water by application to treatment area or in non-cropland area away from water supplies.
2. During the second rinse, add 1.28 fl. oz. household ammonia for every 1 gallon of water. Circulate the solution so that all internal surfaces are contacted (15 to 20 mins.). Let the solution stand for several hours, preferably overnight.
3. Flush the solution out of the spray tank.
4. Rinse the system twice with clean water, recirculating and draining each time.
5. Remove nozzles and screens and clean separately.

**MIXING INSTRUCTIONS**

1. Add ¼ of the required spray volume to the spray tank and start agitation.
2. Add the required amount of this product.
3. Agitate during final filling of the spray tank and maintain sufficient agitation during application to ensure uniformity of the spray mixture.

**Note:** If allowed to stand after mixing, agitate spray mixture before use.

**RANCHETTE PASTURES**

Use this product to control susceptible broadleaf weeds on established forage grasses in permanent ranchette grass pastures. Best results on most weeds are obtained when weeds are small and actively growing (see specific information below).

There are no grazing restrictions following this product's applications when used at labeled rates.

**Application Rates**

Apply this product at a rate of 1/8 to 1/4 fl. oz. per 1,000 sq. ft. in 2 gallons of water when weeds are young and actively growing.

**Advisory:** In California, the maximum application rate is 1/4 fl. oz. per 1,000 sq. ft. per annual use season.

Weed Species	Rate per 1,000 Sq. Ft.	Application Timing
Spotted & Diffuse Knapweed	¼ fl. oz.	Apply any time plants are actively growing, including fall regrowth. Optimum time is from mid bolt to late bud stage of growth.
Canada Thistle	¼ fl. oz.	Apply after the majority of basal leaves have emerged through the beginning of the bud stage. Treatment may also be applied to fall regrowth.
Musk Thistle	1/8 to 1/4 fl. oz.	Apply from rosette to early bolt growth stage.
Yellow Starthistle	3/16 to 1/4 fl. oz.	Apply from rosette to mid-bolt growth stage.

**Precautions:**

- Some desirable broadleaf plants (forbs) are susceptible to this product. Do not spray pastures containing desirable forbs, especially legumes, unless injury can be tolerated. However, the stand and growth of established perennial grasses is usually improved after treatment, especially if rainfall is adequate for active plant growth and grazing is deferred.
- Established grasses are tolerant to this product, but new grass seedlings may be injured to varying degrees until well established as evidenced by development of secondary roots and tillering (multiple stems).

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store above 28°F or warm to 40°F and agitate 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:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank of store for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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