

# **BROADLEAF WEED CONTROL IN RANCHETTE PASTURES - MUSK THISTLE**

## General Information

### GENERAL 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  $\frac{3}{4}$  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.

#### Limitations, Restrictions, and Exceptions

#### BROADLEAF WEED CONTROL IN 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.

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.

Musk Thistle: 1/8 to 1/4 fl. oz. per 1,000 sq ft. Apply from rosette to early 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).

#### Method

[Spray](#)

Rates

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Timings

[Postemergence \(Weed\)](#)

[Apply from rosette to early bolt growth stage.](#)