

# Thistledown®

## For Selective Control of Broadleaf Weeds in Rangeland and Permanent Grass Pastures (including but not limited to Ranchette Pastures)

- Controls Canada Thistle, Musk Thistle, Yellow Starthistle and Knapweed
- Control of Kudzu in Utility Rights-of-Way, Roadsides and Other Non-Crop Areas



### 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.

**Not for Sale, Use, or Distribution in Nassau and Suffolk Counties in New York State.**

EPA Reg. No. 228-491-54705

EPA Est. No. 48498-CA-1

NET CONTENTS: 1/2 PINT / 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.)

See inside booklet for First Aid and Additional Precautionary Statements.

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.

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 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 rangeland, pasture (including but not limited 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 rangeland and permanent grass pastures (including but not limited to ranchette pastures), and in non-crop land areas including equipment pathways, industrial manufacturing and storage sites and rights-of-way such as along roadsides, electrical lines and railroads. Use on these sites may include application to grazed areas.

## USE PRECAUTIONS AND RESTRICTIONS

- **In Arizona:** The state of Arizona has not approved this product for use on plants grown for agricultural/commercial production, such as on designated grazing areas.
- **In Florida:** For control of kudzu in utility rights-of-way, roadsides, fence lines, and other non-crop areas this product may only be used in the following counties: Baker, Bay, Bradford, Calhoun, Columbia, Escambia, Franklin, Gadsden, Gulf, Hamilton, Homes, Jackson, Jefferson, Lafayette, Leon, Liberty, Madison, Okaloosa, Santa Rosa, Suwannee, Taylor, Union, Wakulla, Walton, and Washington.
- **In New York,** the maximum application rate for this product is 2/3 pint per acre per growing season. Do not exceed a cumulative amount of 2/3 pint of clopyralid per acre per crop year.
- Not for Sale, Use or Distribution in Nassau and Suffolk Counties in New York State.
- Do not contaminate irrigation ditches or water used for irrigation or domestic purposes.
- Do not use in greenhouses.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- **Do not transfer livestock** from treated grazing 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. THISTLEDOWN® 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 settle by rainfall or irrigation or irrigate shortly after application.

**Residues in Plants or Manure:** Do not use plant residues, including hay or straw from treated areas, or manure or bedding straw from animals that have grazed or consumed forage from treated areas for composting or mulching where susceptible plants may be grown the following season. Plant materials and/or manure contain enough clopyralid to cause injury to susceptible plant species. Do not spread manure from animals that have grazed or consumed forage or hay from treated areas on land used for growing susceptible broadleaf crops. To promote herbicidal decomposition, plant residues should be

evenly incorporated or burned. Breakdown of clopyralid in crop residues or manure is more rapid under warm, moist soil conditions and may be enhanced by supplemental irrigation.

**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. of household ammonia for every 1 gallon 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.
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 ¾ 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 reuse.

## RANGELAND AND PERMANENT PASTURES (Including but not limited to Ranchette Pastures)

Use this product to control susceptible broadleaf weeds areas or established forage grasses in permanent 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.

## Additional Broadleaf Weeds Controlled:

In addition to the list of broadleaf weeds listed below, this product controls kudzu in non-crop areas.

## Application Rates

Apply this product at a rate of 1/8 to 1/2 fl. oz. per 1,000 sq. ft. in 2 gallons of water when weeds are young and actively growing. This product may be applied as described below for control of spotted and diffuse knapweed, Canada thistle, musk thistle, yellow starthistle and suppression of Russian knapweed. Use the lower labeled application rate for young, actively growing weeds. The higher rate should be used under less favorable conditions, or on dense weed stands and/or larger weeds.

Weed Species	Rate per 1,000 Sq. Ft.	Application Timing
Spotted & Diffuse Knapweed	1/4 to 3/8 fl. oz.	Apply any time plants are actively growing, including fall regrowth. Optimum time is from mid bolt to late bud stage of growth.
Russian Knapweed (suppression)	3/8 to 1/2 fl. oz.	Apply from bud to mid-flower growth stage or treat fall regrowth.
Canada Thistle	1/4 to 1/2 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 3/8 fl. oz.	Apply from rosette to early bolt growth stage.
Yellow Starthistle	3/16 to 3/8 fl. oz.	Apply from rosette to mid-bolt growth stage.

authorities. Plastic containers are also disposable by incineration, or if allowed by State and local authorities, by burning. If burned stay out of smoke.

## WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

### 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).
- Do not use hay or straw from treated areas for composting or mulching on susceptible broadleaf crops.

## CONTROL OF KUDZU IN UTILITY RIGHTS-OF-WAY, ROADSIDES, AND OTHER NON-CROP AREAS

### Application Timing

For the control of kudzu, apply this product between late June and early October, as long as the kudzu is actively growing and not under drought stress. The ideal time to apply this product is during vigorous growth and just prior to or during flowering. For best results on control of all other labeled weed species, apply this product when weeds are small and actively growing. Extreme growing conditions such as drought or near freezing temperatures prior to, at, and following time of application may reduce weed control. Only weeds that have emerged at the time of application will be affected. Wet foliage at the time of application may decrease control.

The treatment with this product will be rainfast within 2 hours after application.

### Spot Applications

Hand held sprayers may be used for spot applications of this product. When applied as a spot treatment, apply to weeds on a spray-to-wet basis (not to runoff). Contact with foliage of cottonwood/poplar trees should be avoided or limited to lower branches. Application rates in the following table are based on an area of 1,000 sq. ft. Mix the amount of this product (fl. oz. or mL) corresponding to the desired rate of one or more gallons of spray. To calculate the amount of this product required for larger areas, multiply the table value (fl. oz. or mL) by the area to be treated in "thousands" of square feet. For example, if the area to be treated is 3,500 sq. ft., multiply the table value by 3.5 (calculation: 3,500 divided by 1,000 = 3.5).

Rates in fl. oz. or mL per 1,000 sq. ft.		
¼ fl oz (7.3 mL)	3/8 fl oz (11 mL)	1/2 fl oz (15 mL)

**Use Precaution and Restriction:** Do not use in forest nursery beds.

## 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 or store rinsate 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

## LIMITATION OF LIABILITY

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR ARISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.

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