

PM 25

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3/16/98

(Base label):

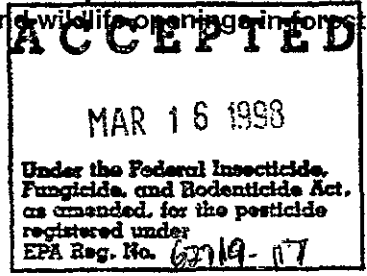
**RESTRICTED USE PESTICIDE**

May Injure (Phytotoxic) Susceptible, Non-Target Plants. For retail sale to and use only by Certified ... Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification. Commercial certified applicators must also ensure that all persons involved in these activities are informed of the precautionary statements.

(logo) Dow AgroSciences LLC

**Tordon\* K**

For control of annual and perennial broadleaf weeds, woody plants, and vines on non-crop areas including forest planting sites, industrial manufacturing sites, rights-of-way such as electrical power lines, communication lines, pipelines, roadsides, railroads, and wildlife openings in forest and non-crop areas



Active Ingredient:

picloram: 4-amino-3,5,6-trichloropicolinic acid, potassium salt .....24.4%

Inert Ingredients .....75.6%

Acid Equivalent:

picloram: 4-amino-3,5,6-trichloropicolinic acid - 21.1% - 2 lb/gal

**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

Keep Out of Reach of Children

**WARNING AVISO**  
**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.)

~~Causes Substantial But Temporary Eye Injury Causes Moderate Eye Irritation - Harmful if Inhaled Or Absorbed Through Skin~~

~~Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing spray mist. Avoid contact with eyes or clothing. Prolonged or frequent repeated skin contact may cause allergic skin reactions in some individuals.~~

**Personal Protective Equipment (PPE)**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

**Engineering Controls:** When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the WPS (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **User Safety Recommendations**

Users should:

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

#### **First Aid**

**If in eyes:** ~~Flush with plenty of water for at least 15 minutes. Get medical attention. Flush eyes with plenty of water. Call a physician if irritation persists.~~

**If on skin:** ~~Wash exposed areas with plenty of soap and water. Get medical attention if irritation develops.~~

**If swallowed:** ~~Call a physician or poison control center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.~~

**If inhaled:** ~~Remove individual to fresh air. Get medical attention if breathing difficulty occurs. If not breathing, give artificial respiration, preferably mouth to mouth, and get medical attention.~~

#### **Environmental Hazards**

This pesticide is toxic to some plants at very low concentrations. Non-target plants may be adversely affected if pesticide is allowed to drift from areas of application. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Do not contaminate water used for irrigation or domestic purposes by cleaning of equipment or disposal of wastes. Do not allow runoff or spray to contaminate wells, irrigation ditches or any body of water used for irrigation or domestic purposes. Do not make application when circumstances favor movement from treatment site.

Picloram is a chemical which can travel (seep or leach) through soil and under certain conditions has the potential to contaminate groundwater which may be used for irrigation and drinking purposes. Users are advised not to apply picloram 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.

An aquifer is defined as "an underground, saturated, permeable, geologic formation capable of producing significant quantities of water to a well or spring. It is the ability of the saturated zone, or portion of that zone, to yield water which makes it an aquifer" (American Chemical Society, 1983).

This chemical can contaminate surface water through spray drift. Under some conditions, picloram may also have a high potential for runoff into surface water (primarily via dissolution in runoff water). These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently, flooded areas, areas over-laying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.



(Datapack cover):

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**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to ~~inside of~~ label booklet for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations and Directions for Use including Storage and Disposal.

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

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.

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

EPA Reg. No. 62719-17

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Dow AgroSciences LLC • Indianapolis, IN 46268 USA

EPA Est. 464-MI-1

**Specialty Herbicide**

Net Contents

(Page 1 through end):

**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

**Keep Out of Reach of Children**

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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.

**Do not use for manufacturing or formulating.**

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.

**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

**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 Agricultural 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:** Do not enter or allow worker entry into treated areas until sprays have dried, unless applicator and other handler PPE is worn.

**Storage and Disposal**

Do not contaminate water, food, fertilizer or feed by storage or disposal. Open dumping is prohibited.

**Pesticide Disposal:** Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to applicable Federal, state or local procedures.

**Plastic Container Disposal: 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.

**Metal Container Disposal: 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.

**General:** Consult federal, state, or local disposal authorities for approved alternative procedures.

**Sprayer Clean-Out:** To avoid injury to desirable plants, equipment used to apply Tordon K herbicide should be thoroughly cleaned before reusing to apply any other chemicals.

1. Rinse and flush application equipment thoroughly after use at least three times with water. Dispose of rinse water in non-cropland area away from water supplies.
2. Rinse a second time, adding 1 qt of household ammonia for every 25 gallons of water. Circulate the solution through the entire system so that all internal surfaces are contacted (15-20 min.). 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. Nozzles and screens should be removed and cleaned separately.

## General Information

Tordon\* K herbicide is recommended for control of unwanted susceptible annual and perennial broadleaf weeds, woody plants, and vines on non-crop areas including forest planting sites, industrial manufacturing sites, rights-of-way such as electrical power lines, communication lines, pipelines, roadsides, railroads, and wildlife openings in forest and non-crop areas.

## General Use Precautions

Use this product only as specified on this label.

**[Editor's Note: The following text (down to next Editor's Note) was moved to this location from the end of the General Use Precautions section. Source text is shown with strike-through.]**

Do not rotate food or feed crops on treated land if they are not registered for use with picloram until an adequately sensitive bioassay or chemical test shows that no detectable picloram is present in the soil.

**Do not move treated soil** to other areas or use it to grow plants if they are not registered for use with picloram until an adequate sensitive bioassay or chemical test shows that no detectable picloram is present in the soil.

**Do not spray if the loss of forage legumes cannot be tolerated.** Tordon K may injure or kill legumes. New legume seedlings may not grow within 2 years following application of this herbicide.

**Do not transfer livestock** from treated grazing areas onto sensitive broadleaf crop areas without first allowing 7 days of grazing on an untreated grass pasture. Otherwise, urine may contain enough picloram to cause injury to sensitive broadleaf plants.

**Do not use manure** from animals grazing treated areas on land used for growing broadleaf crops, ornamentals, orchards or other susceptible, desirable plants. Manure may contain enough picloram to cause injury to susceptible plants.

**Do not use grass or hay** from treated areas for composting or mulching of susceptible broadleaf plants.

Do not apply this product through a mist blower.

**Be sure that use of this product conforms to all applicable regulations.**

**[Editor's Note: End of inserted text.]**

Observe any special use and application restrictions and limitations, including method of application and permissible areas of use as promulgated by state authorities.

**Maximum Use Rates:** Total use of Tordon K must not exceed 2 quarts per acre per annual growing season on rights-of-way and other non-crop areas. No more than 2 quarts per acre may be applied within a period of 2 annual growing seasons on forest sites.

**Do not make application when circumstances favor movement from treatment site.**

**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 or runoff to fall onto banks or bottoms of irrigation ditches, either dry or containing water, or other channels that carry water that may be used for irrigation or domestic purposes. Do not apply to snow or frozen ground.

**Do not apply or otherwise permit Tordon K or sprays containing Tordon K to contact crops or other desirable broadleaf plants,** including but not limited to alfalfa, beans, cotton, grapes, melons,



peas, potatoes, safflower, soybeans, sugar beets, sunflower, tobacco, tomatoes, and other vegetable crops, flowers, fruit plants, ornamentals or shade trees.

**Tordon K should not be applied on residential or commercial lawns or near ornamental trees and shrubs.** Untreated trees can occasionally be affected by root uptake of herbicide through movement into the top soil or by excretion of the product from the roots of nearby treated trees. Do not apply Tordon K within the root zone of desirable trees unless such injury can be tolerated.

**Conifer planting intervals vary.** Pines planted sooner than six months after treatment with Tordon K may be injured in the South or west of the Cascade Mountains. Other conifers, west of the Cascade Mountains, may be injured if planted sooner than 8 to 9 months after treatment. For all conifers, the waiting period between treatment and planting should be 11 to 12 months in the area between the Cascade and Rocky Mountains and 8 to 9 months in the lake States and Northeastern U.S.

#### **Avoid Injurious Spray Drift**

Applications should be made only when there is little or no hazard from spray drift. Very small quantities of spray, which may not be visible, may seriously injure susceptible plants. Do not spray when wind is blowing toward susceptible crops or ornamental plants near enough to be injured. It is suggested that a continuous smoke column at or near the spray site or a smoke generator on the spray equipment be used to detect air movement, lapse conditions, or temperature inversions (stable air). If the smoke layers or indicates a potential for hazardous spray drift, do not spray.

For aerial application on rights-of-way or other areas near susceptible crops, use Nalco-Trol drift control additive as recommended by the manufacturer or apply through a Micro-Foil or Thru-Valve boom or use an equivalent drift control system. Thickened sprays prepared by using high viscosity invert systems or other drift control additives or systems may be utilized if drift control is comparable to that obtained with Nalco-Trol or the Thru-Valve boom. If a spray thickening agent is used, follow all use recommendations and precautions on the product label. Do not use a thickening agent with the Micro-foil boom, or other systems that cannot accommodate thick sprays.

**Ground Equipment:** With ground equipment, spray drift can be reduced by keeping the spray boom as low as possible; by applying 20 gallons or more of spray per acre; by using spray pressures no greater than are required to obtain adequate plant coverage; by using large droplet-producing nozzle tips; and by spraying when wind velocity is low. Do not apply with hollow cone-type insecticide or other nozzles that produce a fine-droplet spray.

**High Volume Leaf-Stem Treatment:** Spray drift can be reduced by using spray pressures no greater than are required to obtain adequate plant coverage and spraying no higher than brush-tops. Avoid excessive pressures which result in formation of fine spray mists. Nalco-Trol thickening agent or equivalent may be used to reduce spray drift.

**Aerial Application:** Avoid spray drift at the application site. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. Users are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications:

1. The distance of the outer most operating nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the following **Aerial Drift Reduction Advisory**. [This information is advisory in nature and does not supersede mandatory label requirements.]

### **Aerial Drift Reduction Advisory**

#### **Information On Droplet Size**

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

#### **Controlling Droplet Size**

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** - Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the airstream produced larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

**Boom Length:** For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

**Application Height:** Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

**Swath Adjustment:** When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

**Wind:** Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

**Temperature And Humidity:** When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

**Temperature Inversions:** Applications should not occur during a local, low level temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small, suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be

115

indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of the smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas: The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

**[Editor's Note: The following text replaced by Aerial Spray Drift Reduction Advisory.]**

~~With aircraft, drift can be lessened by applying a coarse spray; by spray pressures no greater than are required to obtain adequate plant coverage; by using straight stream nozzles directed straight back; by using a spray boom no longer than 3/4 the rotor or wing length; by spraying only when wind velocities are low; and by using approved drift control systems.~~

**[Editor's Note: End of text replaced by Aerial Spray Drift Reduction Advisory.]**

**[Editor's Note: The following text moved to beginning of General Use Precautions section.]**

~~Do not apply this product through a mist blower.~~

~~Do not rotate food or feed crops on treated land if they are not registered for use with picloram until an adequately sensitive bioassay or chemical test shows that no detectable picloram is present in the soil.~~

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### Plants Controlled by Tordon K

#### Annual and Perennial Broadleaf Weeds:

- |                                     |                   |
|-------------------------------------|-------------------|
| artichoke thistle                   | larkspurs         |
| <del>absinth</del> absinth wormwood | leafy spurge      |
| bouncingbet                         | locoweed          |
| broom snakeweed                     | lupines           |
| burroweed                           | milkweeds         |
| bursage                             | musk thistle      |
| Canada thistle                      | rush skeletonweed |
| chicory                             | Russian thistle   |
| clover                              | sowthistle        |
| fleabane                            | starthistles      |
| field bindweed                      | tansy ragwort     |

goldenrod	toadflax
horsenettle	wild carrot
knawweeds	wild parsnip

**Woody Plants and Vines:**

aspen	liveoak
blackberries	locust
buttonbush	maple
cactus species	mesquite
catclaw acacia	oak
cedar	persimmon
chaparral species	pine
dogwood	poison oak
Douglas fir	poplars
firs	rabbitbrush
fringed sagebrush	salmonberry
gorse	sassafras
guava	sourwood
gums	spruce
<del>hau-haw</del>	sumac
hemlock	trumpet creeper
hickory	willows
java plum	juniper
latana-lantana	

**Application**

Use Tordon K at rates of 1/4 to 2 quarts per acre to control broadleaf weeds, woody plants, and vines. Tordon K Herbicide may be tank mixed with Garlon\* 4 Herbicide, Garlon 3A Herbicide, 2,4-D amines or low-volatile esters, Envert 171 and Weedone 2,4-DP to control mixed plant species. When tank mixing, observe all precautions, directions, and limitations on each product label. In all cases use the amounts specified in enough spray volume to give thorough and uniform coverage of the plants to be controlled.

**To Prepare Water-Based Sprays Containing Tordon K**

Add the total required amount of water to the spray tank. When using Nalco-Trol drift control additive, add at rates specified on its container while using continuous agitation. Next, add the required amount of Tordon K. If a tank mixture of herbicides is to be used, add the required amount of Garlon 4 Herbicide or Garlon 3A Herbicide, 2,4-D 3.8 lb/gal amine or low volatile ester, or Weedone 2,4-DP. Use of a non-ionic agricultural surfactant, such as Ortho X-77, Triton AG-98, or Tronic, is recommended for all applications. When using surfactants, follow the use directions and precautions listed on the surfactant manufacturer's label. Use the higher recommended concentrations of surfactant in the spray mixture when applying lower spray volumes per acre. Continuous agitation should be maintained while mixing the spray.

Observe all use precautions listed on this label.

**High Volume Leaf-Stem Treatment**

Use Tordon K at the rate of 1/2 to 4 quarts in enough water to make 100 gallons of spray to control vines and other woody plants. To control additional species, mix 1/2 to 1 quart of Tordon K with 1 to 3 quarts of Garlon 4 Herbicide or 1 to 4 quarts of Garlon 3A Herbicide, or 4 to 8 quarts of 3.8 lb/gal 2,4-D amine or low volatile ester in 100 gallons of spray mixture.

Apply after the foliage is well developed and in a manner to give thorough spray coverage. Wet all leaves, stems, and root collars. For hard-to-kill species such as hickory and oak, wet the soil around the root collar. The amount of spray mixture per acre will vary with plant size and density; however, total use of Tordon K should must not exceed 2 quarts per acre.

**Spot Treatment of Broadleaf Weeds**

Use 1/4 to 4 quarts of Tordon K in 100 gallons of water and spray weed foliage uniformly. In tank mix combinations, use 1/4 to 1 quart Tordon K with 1 to 2 quarts of Garlon 4 Herbicide or 1 to 3 quarts of Garlon 3A Herbicide or with 1 to 2 quarts of 2,4-D 3.8 lb/gal amine or low volatile ester or with 2/3 to 1 1/3 quarts of 5.6 lb/gal 2,4-D low volatile ester. The amount of spray mixture per acre will vary with plant size and density; however, total use of Tordon K should must not exceed 2 quarts per acre.

**Broadcast Ground or Aerial Foliage Treatment**

To obtain adequate plant coverage, it is recommended that ground applications of Tordon K be made in 15 or more gallons of total spray mixture per acre. For aerial applications, use of 5 to 20 gallons per acre of spray mixture is recommended. Use higher spray volumes where plants are tall, where the vegetation to be treated is dense, or where difficult to control species are present.

**Broadleaf Annual and Perennial Weed and Woody Vine Control**

Use Tordon K at rates of 1/4 to 2 quarts per acre. Apply to problem weeds and vines any time after growth begins in the spring before full bloom and late in summer or fall. Suggested rates to control several broadleaf weeds are shown in the table below.

Weed Species	Rates of Tordon K Per Treated Acre
Yellow Starthistle, Scotch Thistle, Musk Thistle, Ox-eye Daisy	1/4 to 1/2 quart
Artichoke Thistle, Diffuse Knapweed, Spotted Knapweed, Henbane, Buffalobur, Lupines, Locoweeds, Broom Snakeweed	1/2 to 1 quart
Pricklypear and Cholla cactus, Burroweed, Plains Larkspur	1 to 2 quarts
Canada Thistle, Rush Skeletonweed, Russian Knapweed, Dalmatian Toadflax, White Horsenettle	2 quarts
Tall Larkspur, Leafy Spurge, Field Bindweed, Poison Oak	2 quarts

In tank mix combinations, use 1/4 to 1 quart Tordon K per acre with 1 to 3 quarts of Garlon 4 Herbicide or 1 to 4 quarts of Garlon 3A Herbicide or with 1 to 2 quarts of 3.8 lb/gal 2,4-D amine or low volatile ester or with 2/3 to 1 1/3 quarts of 5.6 lb/gal 2,4-D low volatile ester.

**Woody Plant Control**

Suggested rates to control several woody plants are shown in the table below.

Plant Species	Rates of Tordon K Per Treated Acre
Rabbitbrush, Mesquite	1/2 to 1 quart
Catclaw Acacia	1 to 2 quarts
Pinyon, Juniper, Chaparral, Gorse, Willows, Poplars, Douglas Fir, Cedars	1 to 2 quarts
Gamble Oak, Liveoak, Poison Oak	2 quarts

For difficult-to-control woody species such as balsam fir, black or Sitka spruce, gums, hickory, maple, oaks, and sourwood use 2 quarts of Tordon K per acre with 2 to 5 quarts of Garlon 4 Herbicide or 4 to 8 quarts of Garlon 3A Herbicide or with 6 to 8 quarts of 3.8 lb/gal 2,4-D low volatile ester, or with 4 to 5 1/3 quarts of 5.6 lb/gal 2,4-D low volatile ester. To control maple, conifers and root-suckering species such as sassafras, sumac, black locust, persimmon, salmonberry, blackberry and western dewberry, apply a mixture of 1 1/2 to 2 quarts of Tordon K per acre plus 3 to 5 quarts of Garlon 4 Herbicide or 4 to 8 quarts

of Garlon 3A Herbicide or plus 4 to 10 quarts of 3.8 lb/gal 2,4-D low volatile ester or Weedone 2,4-DP, or plus 2 2/3 to 6 2/3 quarts of 5.6 lb/gal 2,4-D low volatile ester.

#### **Broadcast Cut Stubble Treatment**

To prevent re-sprouting of susceptible woody species after mowing or hand cutting on non-crop areas and rights-of-way, use Tordon K Herbicide at the rate of 2 to 4 quarts per acre in 25 or more gallons of a water spray mixture. Best results may be obtained when applications are made before or during periods of active root growth. Applications should not be made when the soil is frozen or covered by snow or standing water. It is recommended that applications be made soon after cutting, before sprouting of woody species has occurred.

#### **Invert Emulsions**

Tordon K can be applied as an invert emulsion tank mix combination spray with Envert 171 Woody Plant Herbicide or approved invert agent. Consult label directions for Envert 171 Woody Plant Herbicide or invert agent to determine recommended use.

Use of Tordon K with an invert agent results in a thick invert water-in-oil spray emulsion designed to minimize spray drift. Such an emulsion may be formed in a single tank (Batch Mixing) or flash inverted (Flash Mixing). For specific instructions, see invert agent or Envert 171 label.

Where root-suckering species such as sumac, sassafras, locust and black gum predominate, mix 3 gallons of Envert 171 plus 1 1/2 quarts Tordon K with 9 gallons of water for each acre to be sprayed.

Where harder-to-control species such as red maple, elm or oaks are present, mix 5 to 6 gallons of Envert 171 plus 1 to 2 quarts of Tordon K with 15 to 18 gallons of water for each acre to be sprayed.

#### **Broadcast Treatments for Forest Site Preparation (Not for Conifer Release)**

For broadcast applications apply the recommended rate of Tordon K in a total spray volume of 5 to 25 gallons per acre by air or 10 to 100 gallons per acre by ground. Use spray volumes sufficient to provide thorough coverage of treated foliage. Use application systems designed to prevent spray drift to off-target sites. Nozzles or additives that produce larger droplets may require higher spray volumes to provide adequate coverage.

**Southern States (Alabama, Arkansas, Delaware, Georgia, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas and Virginia):** To control susceptible woody plants and broadleaf weeds, apply Tordon K at a rate of 2 to 3 quarts per acre. To broaden the spectrum of woody plants and broadleaf weeds controlled, apply 2 to 2.5 quarts per acre of Tordon K in tank mix combination with 2 to 4 quarts of Garlon 4 herbicide. Where grass control is desired, Tordon K, alone or in combination with Garlon 4 herbicide, may be tank mixed with 1 to 4 quarts per acre of Accord or Roundup herbicides, or 8 to 16 fluid ounces per acre of Arsenal Applicator's Concentrate herbicide. Susceptible woody plants, broadleaf weeds and grasses may also be controlled using a tank mix of 2 to 2.5 quarts per acre of Tordon K with 3 to 5 quarts per acre of Accord or Roundup herbicides, or 16 to 24 fluid ounces of Arsenal Applicator's Concentrate. When applying tank mixes, follow use directions and precautions on each product label.

**In Western, Northeastern, North Central and Lake States (States Not Listed Above As Southern States):** To control susceptible woody plants and broadleaf weeds, apply Tordon K at a rate of 1 to 2 quarts per acre. To broaden the spectrum of woody plants and broadleaf weeds controlled, apply 1 to 2 quarts per acre of Tordon K in tank mix combination with 1.5 to 3 quarts per acre of Garlon 4 herbicide; Where grass control is also desired, Tordon K, alone or in tank mix combination with Garlon 4, may be applied with 1 to 3 quarts per acre of Accord or Roundup herbicide, 2 to 4 ounces per acre of Oust, a combination of Accord (or Roundup) plus Oust at the rates listed, or 8 to 16 fluid ounces of Arsenal Applicator's Concentrate. When applying tank mixes, follow the use directions and precautions on each product label.

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**Warranty Disclaimer**

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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 shall Dow AgroSciences be liable for consequential or incidental damages or losses.

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