

PIN 62719-17 1087

# Specimen Label

## RESTRICTED USE PESTICIDE

May Injure (Phytotoxic) Susceptible, Non-Target Plants.

For retail sale to and use only by Certified Applicators or person 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.

# Tordon\* K

## Herbicide

# Tordon\* K

### Active Ingredient(s):

Picloram (4-amino-3,5,6-trichloropicolinic acid), as the potassium salt ..... 24.4%

Inert Ingredient(s): ..... 75.6%

### Acid Equivalent:

Picloram (4-amino-3,5,6-trichloropicolinic) acid - 21.1% - 2 lb/gal

E.P.A. Registration No. ~~464-424~~ 62719-17

E.P.A. Est. 464-MI-1

### KEEP OUT OF REACH OF CHILDREN

### WARNING

### AVISO:

### PRECAUCION AL USUARIO:

Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

**CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY**

**• HARMFUL IF INHALED OR ABSORBED THROUGH SKIN**

**Do Not Get In Eyes Or On Clothing • Wear Goggles, Face Shield Or Safety Glasses When Handling • Avoid Contact With Skin • Wash Thoroughly With Soap And Water After Handling • Remove Contaminated Clothing And Wash Before Reuse • Avoid Breathing Spray Mist**

### STATEMENTS OF PRACTICAL TREATMENT:

If in eyes, flush with plenty of water for at least 15 minutes. Get medical attention.

### Environmental Hazards

Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). 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 run-off 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. See additional precautionary statements elsewhere on this label.

### NOTICE

Read and understand the entire label before using. Use only according to label directions.

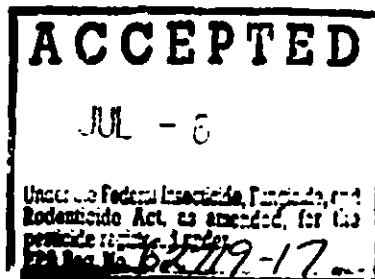
Before buying or using this product, read "WARRANTY LIMITATIONS AND DISCLAIMER" elsewhere on this label. If terms are not acceptable, return unopened package at once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under WARRANTY LIMITATIONS AND DISCLAIMER.

### IN CASE OF AN EMERGENCY

endangering life or property involving this product, call collect 517-638-4400

### AGRICULTURAL CHEMICAL

Do Not Ship or Store with Food, Feeds, Drugs, or Clothing



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**GENERAL INFORMATION**

TORDON K Herbicide is recommended for control of unweeded susceptible annual and perennial broadleaf weeds, woody plants, and vines on non-crop areas including forest planting sites, industrial manufacturing and storage sites, right-of-ways such as electrical power lines, communication lines, pipelines, roadsides, seed-railroads.

Among the annual and perennial broadleaf weeds controlled by TORDON K are:

- Artichoke Thistle
- Absynth Wormwood
- Bourcambert
- Broom Snakeweed
- Burweed
- Burnage
- Canada Thistle
- Chicory
- Clover
- Dock
- Fieldbine
- Field Bindweed
- Goldenrod
- Horsenettle
- Knapweeds

Among the woody plants and vines controlled by TORDON K are:

- Aspen
- Blackthorn
- Burtonbush
- Cactus species
- Catchew Acacia
- Cedar
- Chaparral species
- Dogwood
- Douglas Fir
- Fir
- Fringed Sagebrush
- Gorse
- Guava
- Guine
- Hau
- Hemlock
- Hickory
- Jays Plum
- Juniper
- Lantana
- Liriodendron
- Locust
- Maple
- Mesquite
- Oak
- Permethon
- Pine
- Poison Oak
- Poplar
- Radiolium
- Salmonberry
- Sassafras
- Sourwood
- Spruce
- Sunac
- Tulipocreeper
- Willows

**DIRECTIONS FOR USE**

Do not use for manufacturing or formulating.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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

Use TORDON K Herbicide at rates of 1/4 to 1/2 quart per acre to control broadleaf weeds, woody plants, and vines. TORDON K may be tank-mixed with Damsocron at 2.4-4.8 lb/gal or 2.4-4.8 quarts of 2.4-D or 2.4-D plus 1.0-2.0 quarts of 2.4-D. Damsocron is available in 100-gallon and 50-gallon containers. TORDON K may be tank-mixed with 2.4-D or 2.4-D plus 1.0-2.0 quarts of 2.4-D. Damsocron is available in 100-gallon and 50-gallon containers. TORDON K may be tank-mixed with 2.4-D or 2.4-D plus 1.0-2.0 quarts of 2.4-D. Damsocron is available in 100-gallon and 50-gallon containers. TORDON K may be tank-mixed with 2.4-D or 2.4-D plus 1.0-2.0 quarts of 2.4-D. Damsocron is available in 100-gallon and 50-gallon containers.

To Prepare Water-Soluble Sprays containing TORDON K Herbicide, add the total required amount of water to the spray tank. When using Necto-Trol drift control additive, add it as 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 2.4-D 3.8 lb/gal emuls or low volatile ester, Aerial-Aerials or Weadone 2.4-OP. ←

needed. A suspension should be added last. Continuous agitation should be maintained while making the spray. Observe all use precautions listed on this label.

High Volume Leaf-Stem Treatment: Use TORDON K at the rate of 1/4 to 4 quarts in enough water to make 100 gallons of spray to control vines and other woody plants. To control additional species, mix 1/4 to 1 quart of TORDON K with 4-8 quarts of 5.6 lb/gal 2.4-D low volatile ester or Aerial T or with 4 pounds of Aerial and dilute to make 100 gallons of spray. One quart of the suspension such as Aerial Spray, Aerial T, or 100 gallons of equipment should be added when Aerials are used.

Apply after the foliage is well developed and in a manner to give thorough spray coverage. Use a spraying spray and kill all leaves, stems, and root collars. For hard-to-kill species such as hickory and oak, seal the soil around the root collar. Use 100 gallons of spray per acre. The required volume depends on the size of the tree.

Spot Treatment of Broadleaf Weeds: Use 1/4 to 4 quarts of TORDON K Herbicide in 100 gallons of water and spray weed foliage uniformly using 50-100 gallons of spray per acre. In tank mix combinations, use 1/4 to 1 quart of TORDON K with 1 to 2 quarts of 2.4-D 3.8 lb/gal emuls or low volatile ester or with 1/4 to 1 1/2 quarts of 5.6 lb/gal 2.4-D low volatile ester.

Broadleaf Ground or Aerial Foliage Treatment For Broadleaf Annual and Perennial Weed and Woody Vines Control: Use TORDON K Herbicide at rates of 1/4 to 1/2 quart per acre. 1.5-6.0 gallons of water spray. 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	Rate 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, Hensbit, Buffalo-bur, Lupines, Locoweeds, Broom Snakeweed	1/4 to 1 quart
Phacelia and Cholla cactus, Burweed, Plains Liriodendron	1 to 2 quarts
Canada Thistle, Rush Snakeweed, Russian Knapweed, Dalmatian Toadflax, White Horsefly	2 1/2-5 quarts
Tall Liriodendron, Lady Spurge, Field Bindweed, Poison Oak	2-4 quarts

TORDON K Herbicide may be tank-mixed with 2.4-D 3.8 lb/gal emuls or low volatile ester, Aerial-Aerials or Weadone 2.4-OP. In tank mix combinations, use 1/4 to 1 quart of TORDON K Herbicide with 1 to 2 quarts of 3.8 lb/gal 2.4-D emuls or low volatile ester or with 1/4 to 1 1/2 quarts of 5.6 lb/gal 2.4-D low volatile ester.

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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
Catalaw Acacia	1 to 2 quarts
Pinyon, Juniper, Chaparral, Gorse, Willows, Poplars, Douglas Fir, Cedars	1 to 2 quarts 2
Gambel Oak, Liveoak, Poison Oak	2 1/2 to 4 quarts

For difficult-to-control woody species such as balsam fir, black or Sitka spruce, gums, hickory, maple, oaks, and sourwood, use 3 to 4 quarts of TORDON K with 6 to 8 quarts of 3.8 lb/gal 2,4-D low volatile ester, or with 4 to 5 1/2 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 plus 4 to 10 quarts of 3.8 lb/gal 2,4-D low volatile ester or Weedone 2,4-DP, or plus 2 1/2 to 6 1/2 quarts of 5.6 lb/gal 2,4-D low volatile ester.

Invert Emulsions with Ervert 474: TORDON K Herbicide can be applied as an invert emulsion tank mix combination spray with Ervert 171 Woody Plant Herbicide. Consult label directions for Ervert 171 Woody Plant Herbicide to determine recommended use of an invert agent.

Use of TORDON K with Ervert 474 Herbicide 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 Ervert 171 label.

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

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

USE PRECAUTIONS

Use this product only as specified on this label.

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

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 run-off 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 Herbicide or Sprays Containing TORDON K Herbicide 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.

Carrier 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 the 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 of hazardous spray drift, do not spray.

To aid in reducing spray drift, this product should be applied with a Microfoil boom, or an equivalent drift control system, or a thick invert emulsion or with a spray thickening agent such as Nalco-Trol or its equivalent. 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 Microfoil boom, or other systems that cannot accommodate this 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 no more than 40 pounds spraying pressure with 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: To minimize spray drift, do not use pressure exceeding 60 psi at the spray nozzle, and keep sprays no higher than bush tops. Nalco-Trol thickening agent or equivalent may be used to reduce spray drift.

Aerial Application: With aircraft, drift can be lessened by applying a coarse spray; by using no more than 30 pounds spray pressure at the nozzle; by using straight stream nozzles directed straight back; by using a spray boom no longer than 1/2 the rotor or wing length; by spraying only when wind velocities are low; and by using approved drift control systems.

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.

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

PRECAUTIONARY STATEMENTS

Environmental Hazards

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.

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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).

**STORAGE AND DISPOSAL fertilizer**

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

**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.

Rinse application equipment after use, at least three times with water, and dispose of rinse water in a non-cropland area away from water supplies.

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

**WARRANTY LIMITATIONS AND DISCLAIMER**

The Dow Chemical Company 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 thereon under normal conditions of use. **THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT. NO OTHER EXPRESS AND NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL.** Therefore, neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), under abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of seller.

When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), buyer or user must promptly notify in writing The Dow Chemical Company of any claims to be eligible to receive either remedy given below. **The EXCLUSIVE REMEDY OF THE BUYER OR USER and the LIMIT OF LIABILITY of The Dow Chemical Company or any other seller will be one of the following, at the election of The Dow Chemical Company:**

(1) Refund of purchase price paid by buyer or user for product bought, or

(2) Replacement of amount of product used.

The seller will not be liable for consequential or incidental damages or losses.

The terms of this Warranty Limitations And Disclaimer cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations And Disclaimer in any manner.

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Midland, Michigan 48674 U.S.A.

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**REVISIONS INCLUDE:**

1) REVISED STATEMENT IN RESTRICTED USE PESTICIDE SECTION

2) REVISED ENVIRONMENTAL HAZARDS STATEMENTS

3) REVISED PRECAUTIONARY STATEMENTS

**SPECIMEN LABEL 86-1249 DATE CODE E1089  
REPLACES 86-1249 DATE CODE D 388  
DISCARD PREVIOUS SPECIMEN LABELS**

**INSERT A**

and wildlife openings in forest and non-crop areas.

**INSERT B**

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.

**INSERT C**

GARLON 4 Herbicide or GARLON 3A Herbicide,

**INSERT D**

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.

**INSERT E**

Herbicide 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.

**INSERT F**

The amount of spray mixture per acre will vary with plant size and density; however, total use of TORDON K Herbicide should not exceed 2 quarts per acre.

**INSERT G**

K Herbicide with 1 to 2 quarts of GARLON 4 Herbicide or 1 to 3 quarts of GARLON 3A Herbicide or with

**INSERT H**

To obtain adequate plant coverage, it is recommended that ground applications of TORDON K Herbicide 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.

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**INSERT I**

per acre with 1 to 3 quarts of GARLON 4 Herbicide or 1 to 4 quarts of GARLON 3A Herbicide or with

**INSERT J**

use 2 quarts of TORDON K Herbicide per acre with 2 to 5 quarts of GARLON 4 Herbicide or 4 to 8 quarts of GARLON 3A Herbicide, or

**INSERT K**

2 quarts of TORDON K Herbicide 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

**INSERT L**

**BROADCAST CUT STUBBLE TREATMENT:** To prevent resprouting 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 surface 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.

**INSERT M**

or approved invert agent. Consult label directions for Envert 171 Woody Plant Herbicide or invert agent to determine recommended use.

**INSERT N**

TORDON K Herbicide 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 Herbicide within the root zone of desirable trees unless such injury can be tolerated.

**INSERT O**

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 MICROFOIL 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.

**INSERT P**

spray pressures no greater than are required to obtain adequate plant coverage;

**INSERT Q**

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.

**INSERT R**

Do not apply this product through a mist blower.

**INSERT S**

Do not spray if the loss of forage legumes cannot be tolerated. TORDON K Herbicide 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.

**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. 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.

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