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# Specimen Label

In Accordance with PR Notice 82-23  
Based on Draft Labeling Dated 2/11/86

## RESTRICTED USE PESTICIDE

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.

# Tordon\* K Herbicide

# Tordon\* K

### Active Ingredient(s):

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

Inert Ingredients ..... 75.6%

### Acid Equivalent:

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

E.P.A. Registration No. 464-421

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

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION 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

### MAY CAUSE IRRITATION

Avoid Contact With Eyes, Skin, Or Clothing •  
Avoid Breathing Spray Mist • Keep Container  
Closed • Wash Thoroughly After Handling

STATEMENT OF PRACTICAL TREATMENT: In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.

### Environmental Hazards

Do not apply directly to any body of water •  
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.

Picloram is a chemical which can travel (seep  
or leach) through soil and under certain

conditions 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.

### NOTICE

Read the entire label. Use only according to label directions.  
Before buying or using this product, read "WARRANTY LIM-  
ITATIONS AND DISCLAIMER" on back panel. 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 517-636-4400

### AGRICULTURAL CHEMICAL

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

**BEST AVAILABLE COPY**

### 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 and storage sites, right-of-ways such as electrical power lines, communication lines, pipelines, roadsides, and railroads.

Among the annual and perennial broadleaf weeds controlled by TORDON K are Artichoke Thistle, Abeynith wormwood, Bouncingbet, Broom Snakeweed, Burweed, Bursage, Canada Thistle, Chicory, Clover, Dock, Fleabane, Field Bindweed, Goldenrod, Horenettle, Knapweeds, Larkspurs, Leafy Spurge, Locoweed, Lupines, Milkweed, Musk Thistle, Rush Skeletonweed, Russian Thistle, Sowthistle, Scotch Thistle, Starthistles, Tansy Ragwort, Toadflax, Wild Carrot, Wild Parsnip.

Among the woody plants and vines controlled by TORDON K are Aspen, Blackberries, Buttonbush, Cactus species, Calclaw acacia, Cedar, Chaparral species, Dogwood, Douglas Fir, Firs, Fringed Sagebrush, Gorse, Guava, Gums, Hawthorn, Hemlock, Hickory, Java Plum, Juniper, Lantana, Liveoak, Locust, Maple, Mesquite, Oak, Persimmon, Pine, Poison Oak, Poplars, Rabbitbrush, Salmonberry, Sassafras, Sourwood, Spruce, Sumac, Trumpet creeper, 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.

Use TORDON K Herbicide at rates of 1/4 to 4 quarts per acre to control broadleaf weeds, woody plants, and vines. TORDON K may be tank mixed with Dow recommended 3.8 lb/gal or 5.6 lb/gal 2,4-D amine or low volatile ester, Amizol, Amitrol T, Ervert 171 and Weedone 2,4-DP at label approved rates to control mixed plant species. In tank mix combinations use 1/4 to 4 quarts of TORDON K per acre, with 1 to 8 quarts of 2,4-D 3.8 lb/gal amine or low volatile ester, Amitrol T and Weedone 2,4-DP, or with 2/3 to 5-1/3 quarts of 5.6 lb/gal 2,4-D low volatile ester or with 4 pounds of Amizol. In all cases use the amounts specified in enough water to give thorough and uniform coverage of the plants to be controlled.

To Prepare Water-Based Sprays containing TORDON K Herbicide, 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 2,4-D 3.8 lb/gal amine or low volatile ester, Amizol, Amitrol T or Weedone 2,4-DP. If needed, a surfactant should be added last. 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 4 to 8 quarts of 5.6 lb/gal 2,4-D low volatile ester or Amitrol T or with 4 pounds of Amizol and dilute to make 100 gallons of spray. One quart of a surfactant such as Surfal Spray Adjuvant per 100 gallons of spray mixture should be added when Amizol or Amitrol T is used.

Apply after the foliage is well developed and in a manner to give thorough spray coverage. Use a drenching spray and wet all leaves, stems, and root collars. For hard-to-kill species such as hickory and oak, soak the soil around the root collar. Up to 400 gallons of spray per acre may be required for adequate coverage of solid stands of brush.

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 to 100 gallons of spray per treated 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 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.

Broadcast Ground or Aerial Foliage Treatment: For these uses the required amount of TORDON K should be applied in a total spray volume of 5 to 50 gallons per acre, depending upon

the plant species, height and density of growth. The preferred volume range is 15 to 50 gallons per acre.

Broadleaf Annual and Perennial Weed and Woody Vine Control: Use TORDON K Herbicide at rates of 1/4 to 4 quarts per acre in 15 to 50 gallons of water spray mixture. 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, Herbena, Buffalo-bur, Lupines, Locoweeds, Broom Snakeweed	1/2 to 1 quart
Prickly Pear and Cholla Cactus, Burweed, Plains Larkspur	1 to 2 quarts
Canada Thistle, Rush Skeletonweed, Russian Knapweed, Dalmation Toadflax, White Horenettle	2 to 3 quarts
Tall Larkspur, Leafy Spurge, Field Bindweed, Poison Oak	3 to 4 quarts

TORDON K Herbicide may be tank mixed with 3.8 lb/gal 2,4-D amine or low volatile ester for use on areas having mixed species including those which respond well to 2,4-D. In tank mix combinations, use 1/4 to 1 quart TORDON K Herbicide 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	Rate of TORDON K Per Treated Acre
Rabbitbrush, Mesquite	1/2 to 1 quart
Calclaw Acacia	1 to 2 quarts
Pinyon, Juniper, Chaparral, Gorse, Willows, Poplars, Douglas Fir, Cedars	1 to 3 quarts
Gambel Oak, Liveoak, Poison Oak	3 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 5-1/3 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 3 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 2-2/3 to 6-2/3 quarts of 5.6 lb/gal 2,4-D low volatile ester.

Invert Emulsions with Ervert 171. 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.

Use of TORDON K with Ervert 171 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 predominate, 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 or oaks are present, mix 5 to 6 gallons of Ervert 171 plus 1 to 3 quarts of TORDON K with 15 to 18 gallons of water for each acre to be sprayed.

AMDON, WEEDONE, AMZOL, MICROFOIL, SURFEL, ENVERT 171, and AMITROL T are trademarks of Union Carbide. NALCO-TROL is a trademark of NALCO Chemical Company.

### STORAGE AND DISPOSAL

**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.

### 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.

Water contaminated with residues of picloram from drainage ditch bank uses shall not be used to irrigate crops which are not registered for use with this chemical.

Picloram is a chemical which can travel (seep or leach) through soil and under certain conditions 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).

**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.**

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 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, as 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 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 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 50 psi at the spray nozzle and keep sprays no higher than brush 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 nozzles; 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.

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.

### 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 therein 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

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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. Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but 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, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

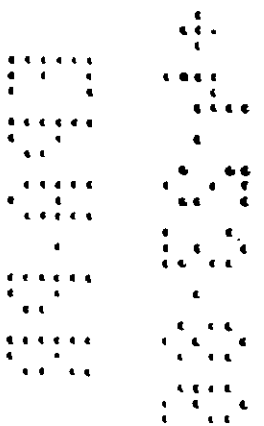
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**THE DOW CHEMICAL COMPANY**  
Midland, Michigan 48674 U.S.A.

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**SPECIMEN LABEL 86-1249 DATE CODE B286  
REPLACES 86-1249 DATE CODE A485  
DISCARD PREVIOUS SPECIMEN LABELS**

- REVISIONS INCLUDE:**
- 1) REVISED ENVIRONMENTAL HAZARD AND USE PRECAUTION STATEMENTS
  - 2) REVISED WARRANTY AND LIMITATIONS DISCLAIMER
  - 3) REVISED STORAGE AND DISPOSAL

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