



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 24, 2018

Ms. Arianna Shorey  
Regulatory Consultant  
Tessengerlo Kerley, Inc.  
c/o Pyxis Regulatory Consulting Inc.  
4110 136<sup>th</sup> St. Ct. NW  
Gig Harbor, WA 98332

Subject: Notification per PRN 98-10 – Change primary brand name & Warranty Statement  
Product Name: Velpar K-4 Agricultural Herbicide  
EPA Registration Number: 61842-42  
Application Date: May 2, 2018  
Decision Number: 540864

Dear Ms. Shorey:

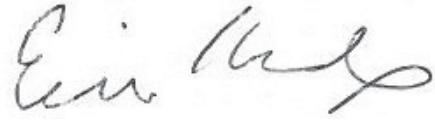
The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, you may contact BeWanda Alexander at (703)347-0313 or via email at [alexander.bewanda@epa.gov](mailto:alexander.bewanda@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Erik Kraft". The signature is written in a cursive style with a large, sweeping flourish at the end.

Erik Kraft, Product Manager 24  
Fungicide and Herbicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

# DuPont™ K-4™ Velpar K-4 Agricultural Herbicide

herbicide

For Use in Florida, Louisiana and Texas

**Dispersible Granules**

<b>Active Ingredient</b>	<b>By Weight</b>
Hexazinone [3-cyclohexyl-6-(dimethylamino) -1-methyl-1,3,5-triazine-2,4(1H,3H)-dione]	13.2%
Diuron 3-(3,4-dichlorophenyl)-1, 1 dimethylurea	46.8%
<b>Other Ingredients</b>	40.0%
<b>TOTAL</b>	100.0%

EPA Reg. No. ~~352-61861842-42~~

EPA Est. No. \_\_\_\_\_

**Nonrefillable Container**

Net: \_\_\_\_\_

OR

**Refillable Container**

Net: \_\_\_\_\_

## NOTIFICATION

61842-42

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

05/24/2018

## KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

### FIRST AID

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-441-3637 for medical emergencies involving this product.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below. If you want more options follow the instructions for category A on an EPA chemical resistance category selection chart.

**Pilots, flaggers and groundboom applicators must wear:**

Long-sleeved shirt and long pants.  
Shoes plus socks.

**Mixers, loaders, other applicators, and other handlers must wear:**

Long-sleeved shirt and long pants.  
Shoes plus socks.  
Chemical resistant gloves made of any waterproof material such as polyethylene or polyvinylchloride. A NIOSH approved dust/mist filtering respirator with any N, R, P, or HE filter or with approval number prefix TC-21C.  
Chemical resistant apron when mixing, loading, or cleaning equipment or spills.

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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### ENGINEERING CONTROL STATEMENT

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

Flaggers supporting aerial applications must use an enclosed cab that meets the definition in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(5)] for dermal protection.

### USER SAFETY RECOMMENDATIONS

**USERS SHOULD:** Wash hands thoroughly with soap and water after handling and 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, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

For terrestrial uses, do not apply directly to water, or 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 or rinsate.

The active ingredient, hexazinone, in this product is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

## PRODUCT INFORMATION

[Velpar K-4 Agricultural Herbicide DuPont™ K-4™ herbicide](#) is a water dispersible granule used at the rate range of 2 to 4 lbs per acre for preemergence control of annual grass and broadleaf weeds in newly planted sugarcane, stubble (ratoon) sugarcane, and fallow land intended for future sugarcane planting.

Caution should be exercised when applying [Velpar K-4 Agricultural Herbicide K-4™](#) near desirable trees and shrubs as they can absorb [Velpar K-4 Agricultural Herbicide K-4™](#) through roots extending into treated areas.

If [Velpar K-4 Agricultural Herbicide K-4™](#) is used in a tank mixture with other herbicides, read and follow all use instructions, warnings and precautions on companion herbicide labels.

[Velpar K-4 Agricultural Herbicide K-4™](#) must only be used in accordance with directions on this label.

## ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

[Velpar K-4 Agricultural Herbicide K-4™](#) is absorbed through the roots and foliage. Moisture is required to activate [Velpar K-4 Agricultural Herbicide K-4™](#) in the soil. Best results are obtained when the applications are made to a firm, well-prepared seed bed that is moist at the time of application and 0.5 to 1.0 inches of rainfall is received within 2 weeks of application.

Temporary leaf yellowing may result from applications of [Velpar K-4 Agricultural Herbicide K-4™](#) over emerged sugarcane.

## INTEGRATED PEST MANAGEMENT

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

## RESISTANCE

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

## DIRECTIONS FOR USE

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

[Velpar K-4 Agricultural Herbicide DuPont™ K-4™](#) must be used only in accordance with directions on this label, or in supplemental [Tessenderlo Kerley, Inc. DuPont](#) labeling.

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.

Proper mixing/loading site considerations and application procedures must be followed to minimize potential for hexazinone movement into ground water. Users are encouraged to consult with their state Department of Agriculture, Extension Service, or other pesticide lead agency for information regarding soil permeability, aquifer vulnerability, and best management practices for their area.

## APPLICATION INFORMATION

[Velpar K-4 Agricultural Herbicide K-4™](#) may be applied by aerial or ground equipment that is properly calibrated to deliver a finished spray volume that is sufficient to provide uniform coverage of the soil surface.

Minimum spray volumes are 10 GPA by ground and 5 GPA by air.

Continuous agitation in the spray tank is required to keep [Velpar K-4 Agricultural Herbicide K-4™](#) in suspension.

Four pounds of [Velpar K-4 Agricultural Herbicide K-4™](#) herbicide contains 1.87 lbs. of the active ingredient diuron and 0.53 lbs. of the active ingredient hexazinone.

When applying [Velpar K-4 Agricultural Herbicide K-4™](#) alone or in combination with other hexazinone-containing products, do not exceed a total annual application of 1.0 lbs. of hexazinone per acre in Florida, 1.5 lbs. of hexazinone in Louisiana, or 1.5 lbs. of hexazinone in Texas.

When applying [Velpar K-4 Agricultural Herbicide K-4™](#) alone or in combination with other diuron-containing products, do not exceed a total annual application of 6 lbs. of diuron per acre.

## LOUISIANA AND TEXAS

Do not apply more than 11.00 lbs. of [Velpar K-4 Agricultural Herbicide K-4™](#) per acre per year.

Do not apply [K-4™ Velpar K-4 Agricultural Herbicide](#) within 140 days of harvest.

## FLORIDA

Do not apply more than 7.5 lbs. of [Velpar K-4 Agricultural Herbicide K-4™](#) per acre per year.

Do not apply [Velpar K-4 Agricultural Herbicide K-4™](#) within 234 days of harvest in Florida.

## AGRICULTURAL USES

### 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 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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 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
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material

## SUGARCANE

[Velpar K-4 Agricultural Herbicide K-4™](#) may be applied in sugarcane in Florida, Louisiana, and Texas.

### NEWLY PLANTED SUGARCANE

Preemergence applications of [Velpar K-4 Agricultural Herbicide K-4™](#) at the use rate of 3.75 to 4 lbs. per acre may be made to newly planted sugarcane for control of annual grass and broadleaf weeds. Applications must be made immediately following planting and row packing and prior to crop and weed emergence. For best weed control, applications must be made to a firm, well-prepared seedbed that is free from clods or excess plant residue.

### STUBBLE (RATOON) SUGARCANE

Preemergence applications of [Velpar K-4 Agricultural Herbicide K-4™](#) at the use rate of 3.75 to 4 lbs. per acre may be made to stubble (ratoon) sugarcane following harvest. For best weed control, applications must be made immediately following harvest and prior to subsequent weed germination. Excess plant residue on the soil surface may decrease the effectiveness of [Velpar K-4 Agricultural Herbicide K-4™](#) and should be removed or minimized.

[Velpar K-4 Agricultural Herbicide K-4™](#) may also be applied postemergence to stubble sugarcane until the crop reaches a height of 18 inches or in Florida within 234 days of harvest, whichever is more restrictive.

Postemergence applications of [Velpar K-4 Agricultural Herbicide K-4™](#) to actively growing sugarcane may result in crop injury when daily temperatures exceed 80 degrees F. When daily temperatures exceed 80 degrees F, post-directed applications are recommended in order to minimize spray contact with sugarcane foliage.

If weeds are present at application, a tank mix partner is recommended for improved postemergence control. If [Velpar K-4 Agricultural Herbicide K-4™](#) is used in a tank mixture with other herbicides, read and follow all use instructions, warnings and precautions on companion herbicide labels.

If weeds are present at the time of application a non-ionic surfactant at the use rate of 0.25% v/v or a crop oil concentrate at the use rate of 1% v/v is specified. If a tank mix partner is being used, follow the most restrictive adjuvant use directions.

### POST-DIRECTED/LAYBY (LOUISIANA AND TEXAS ONLY)

Apply [Velpar K-4 Agricultural Herbicide K-4™](#) post-directed/layby application at the use rates of 2 to 3 pounds per acre. For best weed control, post-directed/layby applications must be made prior to weed emergence and should include an appropriate tank mixture partner for improved grass and broadleaf weed control.

Post-directed/layby applications of [Velpar K-4 Agricultural Herbicide K-4™](#) should be applied to sugarcane that is 30 inches tall or greater. These applications must be directed at the base of the sugarcane plants so that the spray solution does not contact new, emerging leaves in the whirl of the sugarcane.

If an application of [Velpar K-4 Agricultural Herbicide K-4™](#) was made in the spring, apply no more than 2 pounds per acre as a post-directed/layby treatment. Allow at least 8 weeks between the spring and post-directed/layby application.

If weeds are present at application, a tank mix partner herbicide, registered for use on sugarcane, is recommended. When [Velpar K-4 Agricultural Herbicide DuPont™ K-4™](#) is tank mixed with other herbicides, read and follow the use instructions, restrictions and precautions on the companion label(s). If weeds are present at application, also include a non-ionic surfactant at the use rate of 0.25% v/v or a crop oil concentrate at the use rate of 1 % v/v. If a tank mix partner is being used with [Velpar K-4 Agricultural Herbicide K-4™](#), follow the most restrictive adjuvant use directions.

Do not apply within 140 days of harvest.

Do not apply more than one post-directed layby application per crop season.

## FALLOW (TO BE PLANTED TO SUGARCANE)

[Velpar K-4 Agricultural Herbicide K-4™](#) may be applied to fallow sugarcane fields at the use rate of 3.75 to 4 lbs per acre. For best weed control, applications must be made to newly prepared seedbeds that are free of clods and existing vegetation. If weeds are present at application, either a separate application of a contact herbicide or a tank mix partner is recommended for improved post emergence control. If [Velpar K-4 Agricultural Herbicide K-4™](#) is used in a tank mixture with other herbicides, read and follow all use instructions, warnings and precautions on companion herbicide labels.

Make fallow applications of [Velpar K-4 Agricultural Herbicide K-4™](#) at least 60 days prior to sugarcane planting.

## TANK MIXTURES

[Velpar K-4 Agricultural Herbicide K-4™](#) may be applied in tank mixtures with other preemergence or postemergence products labeled for use on sugarcane. Refer to the tank mixture product label(s) for information on weeds, application information, application conditions and use restrictions (follow the label guidelines that are the most restrictive).

### [Velpar K-4 Agricultural Herbicide K-4™](#) + 2,4-D

A tank mixture of [Velpar K-4 Agricultural Herbicide K-4™](#) at 3.75 to 4 lbs. per acre plus 2,4-D (4 lb. ai/gal) at 1 to 2 quarts per acre may be applied as a postemergence spray for improved control of existing annual broad leaf weeds. Postemergent applications of this tank mixture may be made until sugarcane reaches a height of 18 inches or is within 234 days of harvest, whichever is most restrictive. Refer to the 2,4-D label for additional instructions and/or restrictions. The use of a non-ionic surfactant or a crop oil concentrate is required.

### [Velpar K-4 Agricultural Herbicide K-4™](#) + "Weedmaster"

A tank mixture of [Velpar K-4 Agricultural Herbicide K-4™](#) at 3.75 to 4 lbs. per acre plus "Weedmaster" at 1 to 2 pints per acre may be applied as a postemergence spray for improved control of existing annual broadleaf weeds. Postemergent applications of this tank mixture may be made until sugarcane reaches a height of 18 inches or is within 234 days of harvest, whichever is most restrictive. Refer to the "Weedmaster" label for additional instructions and/or restrictions. The use of a nonionic surfactant or a crop oil concentrate is required.

### [Velpar K-4 Agricultural Herbicide K-4™](#) + "Gramoxone" Extra (Louisiana Only)

For improved control of annual ryegrass and other emerged grass and broadleaf weeds, a tank mixture of [Velpar K-4 Agricultural Herbicide K-4™](#) at 3.75 to 4 lbs. per acre plus "Gramoxone" Extra at 1.5 to 3 pints per acre may be applied as a postemergence spray to sugarcane with no more than 4 leaves or 18 inches in height, or is within 234 days of harvest, whichever is more restrictive. The use of a non-ionic surfactant or a crop oil concentrate is required.

## WEEDS CONTROLLED

[Velpar K-4 Agricultural Herbicide K-4™](#) is registered for the control or suppression of the following species. (Use higher rates for heavier infestation.)

Ageratum*	Johnsongrass (from seed)
Alexandergrass	Junglerice
Amaranth (slender)	Lambsquarter
American bumweed (fireweed)	Momingglory (annual, hairy, pitted, red [scarlet], smallflower threelobe)
Balsam apple	Oxalis
Bamyardgrass	Panicum (brownleaf, browntop, Texas millet)
Bermudagrass*	Paspalum (ricegrass, sour)
Bluegrass, annual	Pigweed (common, smooth)
Broadleaf signalgrass	Popolo
Canary grass	Purslane
Carolina geranium	Redweed
Carpetweed	Sandbur
Chickweed	Sedge, annual
Crabgrass (hairy, large, smooth)	Sensitive plant (hila hila)
Crotalaria (fuzzy, showy)	Smellmelon
Cuphea (tarweed)	Sowthistle
Cutleaf eveningprimrose	Spanish needle
Dallisgrass	Sprangletop
Fingergrass (radiate, swollen)	Spurge (prostrate, graceful)
Flora's paintbrush	Swinecress
Foxtail (bristly, yellow)	Sunflower
Goosegrass	Toadflax
Groundcherry, annual	Vaseygrass
Guineagrass	Waltheria (hialoa)
Henbit	Wild mustard
Italian Ryegrass	
Itchgrass*	
Jobs tears	

\* *Partial control*

Note: For improved suppression of bermudagrass in newly planted sugarcane, make applications of [Velpar K-4 Agricultural Herbicide K-4™](#) to a well-prepared seedbed immediately following row packing. Best results have been observed when bermudagrass has been managed either mechanically or with herbicides in the fallow program proceeding sugarcane planting.

In stubble (ratoon) sugarcane, best results for bermudagrass suppression are obtained when applications are made in late winter when bermudagrass is dormant.

## USE RESTRICTIONS AND PRECAUTIONS

Do not plant any crop other than sugarcane within 24 months of last application of [Velpar K-4 Agricultural Herbicide K-4™](#).

Do not feed sugarcane forage to livestock.

In Florida, do not apply [Velpar K-4 Agricultural Herbicide K-4™](#) within 234 days of harvest.

In Louisiana and Texas do not apply [K-4™ Velpar K-4 Agricultural Herbicide](#) within 140 days of harvest.

Do not apply as a postemergence (over-the-top) application to sugarcane beyond a height of 18 inches.

To avoid injury to sugarcane, observe the following precautions:

- Do not use [Velpar K-4 Agricultural Herbicide DuPont™ K-4™](#) on cane that shows poor vigor because of insect damage, disease, or winter injury, or shows symptoms of other stress conditions such as drought stress.
- Do not add a surfactant in applications unless otherwise specified.
- Do not use [Velpar K-4 Agricultural Herbicide K-4™](#) on gravelly or rocky soils, thinly covered subsoils, or coarse-textured soils (sands to sandy loams) with less than 1% organic matter.
- Temporary chlorosis of the crop may result from application over emerged cane. Applications during active cane growth should be directed to cover the weeds and soil while minimizing crop contact.

Extremely heavy rainfall after application may result in poor weed control and/or crop injury, especially if the application is made to dry soil.

## ADDITIONAL USE INFORMATION

### SPRAY DRIFT MANAGEMENT

The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

### IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets (greater than 150-200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly or under unfavorable environmental conditions! See the Wind, Temperature and Humidity, and Temperature Inversions sections below.

## CONTROLLING DROPLET SIZE - GENERAL TECHNIQUES

- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure - Use the lower spray pressures specified for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use a higher-capacity nozzle instead of increasing pressure.
- 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.

## CONTROLLING DROPLET SIZE - AIRCRAFT

- Number of Nozzles - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- Nozzle Orientation - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.
- Nozzle Type - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.

## BOOM LENGTH AND HEIGHT

- **Boom Length (aircraft)** - The boom length should not exceed 3/4 of the wing length, using shorter booms decreases drift potential. For helicopters use a boom length and position that prevents droplets from entering the rotor vortices.
- **Boom Height (aircraft)** - Application more than 10 feet above the canopy increases the potential for spray drift.
- **Boom Height (ground)** - Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. The boom should remain level with the crop and have minimal bounce.

## WIND

Drift potential increases at wind speeds of less than 3 mph (due to variable direction and inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID GUSTY OR WINDLESS CONDITIONS.

**Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they effect spray drift.

## TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

## **SURFACE TEMPERATURE INVERSIONS**

Drift potential is high during a surface temperature inversion. Surface inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Surface inversions are characterized by increasing temperature 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 indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of 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 a surface inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

## **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift, and not interfering with uniform deposition of the product.

## **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).

## **SPRAY TANK CLEANOUT**

Thoroughly clean all traces of [Velpar K-4 Agricultural Herbicide DuPont™ K-4™](#) from application equipment immediately after use. Flush the tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Dispose of the equipment wash water by applying it to a use-site listed on this label.

Caution should be exercised when cleaning equipment used to apply [Velpar K-4 Agricultural Herbicide K-4™](#). Desirable plants such as trees and shrubs can absorb [Velpar K-4 Agricultural Herbicide K-4™](#) through roots which extend beyond the plant canopy.

## **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal.

**Pesticide Storage:** Store product in original container only. Store in a cool, dry place.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling: Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.**

### **Nonrefillable Plastic and Metal Containers**

#### **(Capacity Equal to or Less Than 50 Pounds):**

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. Fill the container 1/4 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, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

### **Nonrefillable Plastic and Metal Containers**

#### **(Capacity Greater Than 50 Pounds):**

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. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.



**Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down):** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**Nonrefillable Paper or Plastic Bags, Fiber Sacks including Flexible Intermediate Bulk Containers (FIBC) or Fiber Drums With Liners:** Nonrefillable container. Do not reuse or refill this container. Completely empty paper or plastic bag, fiber sack or drum liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer for recycling if available or dispose of empty paper or plastic bag, fiber sack or fiber drum and liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

**Refillable Fiber Drums With Liners:** Refillable container (fiber drum only). *Refilling Fiber Drum:* Refill this fiber drum with [Velpar K-4 Agricultural Herbicide DuPont™ K-4™](#) containing hexazinone and diuron only. Do not reuse this fiber drum for any other purpose. Cleaning before refilling is the responsibility of the refiller. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. *Disposing of Fiber Drum and/or Liner:* Do not reuse this fiber drum for any other purpose other than refilling (see preceding). Cleaning the container (liner and/or fiber drum) before final disposal is the responsibility of the person disposing of the container. Offer the liner for recycling if available or dispose of liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner. To clean the fiber drum before final disposal, completely empty the fiber drum by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into

application or manufacturing equipment. Then offer the fiber drum for recycling if available or dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

**All Other Refillable Containers:** Refillable container. *Refilling Container:* Refill this container with [Velpar K-4 Agricultural Herbicide K-4™](#) containing hexazinone and diuron only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If damage is found, do not use the container, contact [Tessenderlo Kerley, Inc. DuPont](#) at the number below for instructions. Check for leaks after refilling and before transporting. If leaks are found, do not reuse or transport container, contact [Tessenderlo Kerley, Inc. DuPont](#) at the number below for instructions. *Disposing of Container:* Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**Outer Foil Pouches of Water Soluble Packets (WSP):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or, dispose of the empty outer foil pouch in the trash as long as WSP is unbroken. If the outer pouch contacts the formulated product in any way, the pouch must be triple rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer pouch as described previously.

Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact [DuPont-CHEMTREC](#) at 1-800-441-3637/424-9300, day or night.

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