

PM 23

62719-308

10-5-98

19/11



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
62719-308

Date of Issuance:
OCT 5 1998

Term of Issuance:
Conditional

Name of Pesticide Product:
Vista

NOTICE OF PESTICIDE:
 x Registration
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Dow AgroSciences LCC
9330 Zionsville Road
Indianapolis, IN 46268

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 62719-308".
 - b. Add the statement "Probable mucosal damage may contraindicate the use of gastric lavage" to the end of the Note to Physician in the Statement of Practical Treatment.
 - c. Within the section for Mixing Instructions, the third bullet in the subsection for Tank Mixing Precautions refers the user to instructions for Sprayer Clean-out. Since no such instructions exist on the label, this reference should be deleted.
 - d. Revise the first sentence in the section for Spray Coverage to read "Apply in a spray volume of 3 or more gallons per acre by air or 5 or more gallons per acre by ground equipment."

Signature of Approving Official:

Date:

OCT 5 1998

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

20711

page 2

EPA Reg. No. 62719-308

3. Submit the following information to satisfy the data gaps in the data base for fluroxypyr. Submission of the following information is required no later than September 30, 1999:

- a. Submit an acceptable seedling emergence study [§123-1(a)] performed on fluroxypyr acid.
- b. Submit an acceptable aquatic plant growth and reproduction study (§123-2) with a freshwater diatom.
- c. Submit additional soil mobility data to fulfill data requirements for §163-1. Specifically, information on the mobility of the major degradates, dichloropyridinol and methoxypropidine, is required.
- d. Submit information on the vapor pressure and Henry's Law Constant on the degradate dichloropyridinol to adequately characterize its potential to volatilize.
- e. Submit storage stability information for soils collected from the test sites of the terrestrial field dissipation study (§164-1). To upgrade the terrestrial field dissipation study, storage stability information should be submitted for the fluroxypyr methylheptyl ester, fluroxypyr acid, and major degradates using soils obtained from the respective test sites.
- f. Submit an acceptable bioaccumulation study (§165-4) in fish.
- g. Submit additional information regarding magnitude of residues in processed food/feed [§171-4(1)] to address whether or not fluroxypyr residues concentrate in wheat germ.

4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Joanne I. Miller
 Product Manager (23)
 Herbicide Branch
 Registration Division (7505C)

Enclosure

DK: 305-7546: AB/PM23

CONCURRENCES

SYMBOL	7505C							
SURNAME	D. KENNY							
DATE	10/2/98							

30/11

(Base label):

(logo) Dow AgroSciences LLC

Vista*

For selective postemergence control of annual and perennial broadleaf weeds in non-cropland areas including industrial sites, non-irrigation ditch banks, and rights-of-way such as electrical power lines, communication lines, pipelines, roadsides and railroads.

Active Ingredient(s):

fluroxypyr: 1-methylheptyl (4-amino-3,5-dichloro-6-fluoro-2-pyridyloxy)acetate	26.2%
Inert Ingredient(s).....	73.8%
Total	100.0%

Contains petroleum distillates.

Acid Equivalent: fluroxypyr: 4-amino-3,5-dichloro-6-fluoro-2-pyridyloxyacetic acid - 18.2% - 1.5 lb/gal

ACCEPTED
with COMMENTS
In EPA Letter Dated
OCT 5 1998

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
62719-308

Keep Out of Reach of Children

WARNING AVISO

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.)

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes Substantial But Temporary Eye Injury • Harmful if Swallowed Or Absorbed Through The Skin

Do not get in eyes or on clothing. Avoid contact with skin. Wear protective eyewear (goggles, face shield or safety glasses). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

First Aid

If In Eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

If On Skin: Wash with plenty of soap and water. Get medical attention.

If Swallowed: Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

Note to Physician: May pose an aspiration pneumonia hazard.

Environmental Hazards

This product is toxic to fish. Drift or runoff from treated areas may be hazardous to aquatic organisms and non-target plants. Do not apply directly to water, to areas where surface water is present or to intertidal

5 of 11

(Label booklet cover):

(tgo) Dow AgroSciences LLC

Vista*

For selective postemergence control of annual and perennial broadleaf weeds in non-cropland areas including industrial sites, non-irrigation ditch banks, and rights-of-way such as electrical power lines, communication lines, pipelines, roadsides and railroads.

Active Ingredient(s):

fluroxypyr: 1-methylheptyl (4-amino-3,5-dichloro-6-fluoro-2-pyridyloxy)acetate	26.2%
Inert Ingredient(s).....	73.8%
Total	100.0%

Contains petroleum distillates.

Acid Equivalent: fluroxypyr: 4-amino-3,5-dichloro-6-fluoro-2-pyridyloxyacetic acid - 18.2% - 1.5 lb/gal

Keep Out of Reach of Children

WARNING AVISO

If you do not understand the label, find someone to explain it to you in detail. (If you do not understand the label, busque a alguien para que se la explique a usted en detalle.)

Refer to label booklet for additional precautionary statements 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-XXX

EPA Est. 00000-XX-00

Trademark of Dow AgroSciences LLC
Dow AgroSciences LLC • Indianapolis, IN 46268 U.S.A.

Specialty Herbicide

Net Contents XXX



6/28/11

(Page 1 through end):

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

Causes Substantial But Temporary Eye Injury • Harmful If Swallowed Or Absorbed Through The Skin

Do not get in eyes or on clothing. Avoid contact with skin. Wear protective eyewear (goggles, face shield or safety glasses). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

First Aid

If In Eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

If On Skin: Wash with plenty of soap and water. Get medical attention.

If Swallowed: Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

Note to Physician: May pose an aspiration pneumonia hazard.

Environmental Hazards

This product is toxic to fish. Drift or runoff from treated areas may be hazardous to aquatic organisms and non-target plants. 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 cleaning equipment or disposing of equipment washwaters.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Storage and Disposal

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

Storage: Store above 10°F or warm and agitate before use.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal (Metal): Triple rinse (or equivalent). Puncture and dispose of in sanitary landfill, or by other procedures approved by state and local authorities.

Container Disposal (Plastic): Triple rinse (or equivalent). Puncture and dispose of in sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

General Information

Vista* herbicide is a selective postemergence product for control of annual and perennial broadleaf weeds in non-crop areas including industrial sites, non-irrigation ditch banks, and rights-of-way such as electrical power lines, communication lines, pipelines, roadsides and railroads.

General Use Precautions

- Do not apply Vista directly to, or otherwise permit it to come in direct contact with, susceptible crops or desirable plants such as alfalfa, canola, cotton, lettuce, edible beans, lentils, mustard, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tomatoes, tobacco, or broadleaf ornamentals.
- Avoid applications where proximity of susceptible plants or other desirable plants is likely to result in exposure to spray or spray drift.
- Do not contaminate irrigation ditches or water used for domestic purposes.
- **Maximum Application Rate:** Do not apply more than is 1 1/3 pints per acre of Vista per annual growing season.
- **Chemigation:** Do not apply this product through any type of irrigation system.

Precautions for Avoiding Spray Drift

Spray drift, even very small quantities of the spray which may not be visible, may severely injure susceptible crops whether dormant or actively growing. When applying Vista, use low pressure equipment capable of producing sprays of uniform droplet size with a minimum of fine spray droplets. Under adverse weather conditions, fine spray droplets that do not settle rapidly onto target vegetation may be carried a considerable distance from the treatment area. A drift control or spray thickening agent may be used with this product to improve spray deposition and minimize the potential for spray drift. If used, follow all use recommendations and precautions on the product label.

Ground Applications: To minimize spray drift, apply Vista in a total spray volume of 5 or more gallons per acre using spray equipment designed to produce large-droplet, low pressure sprays. Refer to the spray equipment manufacturer's recommendations for detailed information on nozzle types, arrangement, spacing and operating height and pressure. Spot treatments should be applied only with a calibrated boom to prevent over application. Operate equipment at spray pressures no greater than is necessary to produce a uniform spray pattern. Operate the spray boom no higher than is necessary to produce a uniformly overlapping pattern between spray nozzles. Do not apply with hollow cone-type insecticide nozzles or other nozzles that produce a fine-droplet spray.

Aerial Application (Helicopter Only): To minimize spray drift, apply Vista in a total spray volume of 3 or more gallons per acre using spray. Drift potential is lowest between wind speeds of 2 to 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 potential for temperature inversion. Spray drift from aerial application can be minimized by applying a coarse spray at spray boom pressure no greater than 30 psi; by using straight-stream nozzles directed straight back; and by using a spray boom no longer than 3/4 the rotor span of the aircraft. Spray pattern and droplet size distribution can be evaluated by applying sprays containing a water-soluble dye marker or appropriate drift control agents over a paper tape (adding machine tape). Mechanical flagging devices may also be used.

Do not apply under conditions of a low level air temperature inversion. A temperature inversion is characterized by little or no wind and lower air temperature near the ground than at higher levels. The behavior of smoke generated by an aircraft mounted device or continuous smoke column released at or near site of application will indicate the direction and velocity of air movement. A temperature inversion is indicated by layering of smoke at some level above the ground and little or no lateral movement.

507 11

Mixing Instructions

Vista Alone

Fill spray tank with water equal to 1/2 to 3/4 of the required spray volume. Add the required amount of Vista, then finish filling the tank. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

Tank Mixing

This product may be applied in tank mix combination with labeled rates of other products provided (1) the tank mix product is labeled for the timing and method of application for the use site to be treated; and (2) tank mixing is not prohibited by the label of the tank mix product.

Tank Mixing Precautions:

- Read carefully and follow all applicable use directions, precautions, and limitations on the respective product labels.
- Do not exceed recommended application rates. Do not tank mix with another pesticide product that contains the same active ingredient as this product unless the label of either tank mix partner specifies the maximum dosages that may be used.
- For other products packaged in water soluble packaging, do not tank mix with products containing boron or mix in equipment previously used to apply a product mixture containing boron unless the tank and spray equipment has been adequately cleaned. (See instructions for Sprayer Clean-Out.)...
- Always perform a (jar) test to ensure the compatibility of products to be used in tank mixture.

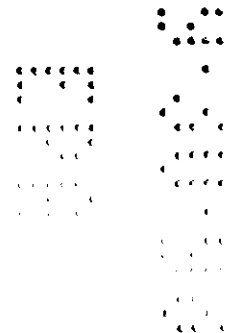
Tank Mix Compatibility Testing: A jar test is recommended prior to tank mixing to ensure compatibility of Vista and other pesticides. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls-up, forms flakes, sludges, jels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

Tank Mixing Instructions

Fill spray tank with water to 1/4 to 1/3 of the required spray volume. Start agitation. Add different formulation types in the order indicated, allowing time for complete mixing and dispersion after addition of each.

1. Add dry flowables; wettable powders; aqueous suspensions, flowables or liquids.
2. Maintain agitation and fill spray tank to 3/4 of total spray volume and then add Vista and other emulsifiable concentrates and any solutions.

Finish filling the spray tank. Maintain continuous agitation during mixing, final filling and throughout application. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose. Settled material may be more difficult to resuspend than when originally mixed.



9041

Application Directions

Non-Cropland

(Including industrial sites, non-irrigation ditch banks, and rights-of-way such as electrical power lines, communication lines, pipelines, roadsides and railroads)

Apply as a single broadcast treatment or spot treatment. Apply at the rate of 2/3 to 1 1/3 pints per acre when weeds are small and/or actively growing. Spot treatments should be applied at rates and spray volumes equivalent to broadcast application. See instructions for "Spot Application" below.

Weeds Controlled or Suppressed

Weeds Controlled	Weeds Suppressed ²
bedstraw (cleavers)	field bindweed
chickweed	field pennycress
cocklebur	marshelder
coffeeweed	mustard
common ragweed	nightshade species
common purslane	Russian thistle
grape species	wild buckwheat
hemp dogbane	
kochia ¹	
morningglory	
sunflower	
velvetleaf	
venice mallow	

¹Includes herbicide tolerant or resistant biotypes.

²Suppression is expressed as a reduction in weed competition (reduction population or vigor) as compared to untreated areas. The degree of weed control and duration of effect may vary with weed size, density, application rate, coverage, and growing conditions before, during and after treatment.

Application Timing

Apply to actively growing weeds. Extreme growing conditions such as drought or near freezing temperatures prior to, at and following time of application may reduce weed control and increase the risk of non-target plant injury. **Only weeds which are emerged at the time of application will be affected.** Foliage that is wet at the time of application may decrease control. Applications of Vista are rain-fast within 1 hour after application.

Effect of Temperature on Herbicidal Activity: Herbicidal activity of Vista is influenced by weather conditions. Optimum activity requires active plant growth. The temperature range for optimum herbicidal activity is 55°F to 75°F. Reduced activity will occur when temperature is below 45°F. Frost before application (3 days) or shortly after (3 days) may reduce weed control.

Application Rates

Generally, application rates at the lower end of the recommended rate range will be satisfactory for young, succulent growth of sensitive weed species. For less sensitive species, perennials, and under conditions where control is more difficult (plant stress conditions such as drought or extreme temperatures, dense weed stands and/or larger weeds) the higher rates within the rate range will be needed. Weeds growing in the absence of competition from other vegetation generally require higher rates to obtain satisfactory control or suppression.

10 of 11

Spray Coverage

Apply in a spray volume of 3 or more gallons per acre by air or 5 or more gallons per acre by air or ground equipment. Do not exceed 40 gallons per acre total spray volume. Use sufficient spray volume to provide thorough coverage and a uniform spray pattern. Inadequate spray volume and coverage may result in decreased weed control. As canopy and weed density increase, spray volume should be increased to obtain equivalent weed control. Use larger nozzle tips or decrease spraying speed to increase spray volume rather than increasing boom pressure. Refer to manufacturer's recommendations for information on relationships between spray volume, and nozzle size and arrangement.

Spot Treatments

Spot treatments may be applied with a calibrated boom or with hand sprayers according to directions provided below.

Hand-Held Sprayers: Hand-held or backpack sprayers may be used for spot applications of Vista if care is taken to apply the spray uniformly and at a rate equivalent to a broadcast application. Application rates in the table are based an area of 1,000 sq ft. The amount of Vista (fl oz or ml) in the table should be mixed with 1 gallon or more of water and applied to an area of 1,000 sq ft. To calculate the amount of product required for larger areas, multiply the table value (fl oz or ml) by the area to be treated in "thousands" of square feet, e.g., if the area to be treated is 3,500 sq ft, multiply the table value by 3.5 (calc. 3,500 ÷ 1,000 = 3.5). An area of 1000 sq ft is approximately 10.5 X 10.5 yards (strides) in size.

Amount of Vista to Equal Specified Broadcast Rate (Mix with 1 Gallon or More of Water and Apply to 1,000 sq ft)		
2/3 pt/acre	1 pt/acre	1 1/3
0.25 fl oz (7.25 ml)	0.37 fl oz (11 ml)	0.5 (14.5 ml)

¹1 fl oz = 29.6 (30) ml

Warranty Disclaimer

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.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Crop 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 temperatures, 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.

Limitation of Remedies

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.

11 of 11

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.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

*Trademark of Dow AgroSciences LLC
EPA-Accepted __/__/__

3301
3302
3303
3304
3305
3306
3307
3308
3309
3310
3311
3312
3313
3314
3315
3316
3317
3318
3319
3320
3321
3322
3323
3324
3325
3326
3327
3328
3329
3330
3331
3332
3333
3334
3335
3336
3337
3338
3339
3340
3341
3342
3343
3344
3345
3346
3347
3348
3349
3350
3351
3352
3353
3354
3355
3356
3357
3358
3359
3360
3361
3362
3363
3364
3365
3366
3367
3368
3369
3370
3371
3372
3373
3374
3375
3376
3377
3378
3379
3380
3381
3382
3383
3384
3385
3386
3387
3388
3389
3390
3391
3392
3393
3394
3395
3396
3397
3398
3399
3400