

Specialty Herbicide *Trademark of DowAgroSciences LLC

LOW VOLATILE WEED AND BRUSH HERBICIDE

ACTIVE INGREDIENTS:

2,4-dichlorophenoxyacetic acid, butoxyethyl estertriclopyr BEE: 3,5,6-trichloro-2-pyridinyloxyacetic acid,	34.4%
butoxyethyl ester.	16.5%
OTHER INGREDIENTS.	49.1%
TOTAL	100.0%
Containe Patroleum Distillates Acid Equivalente: 2.4-disblorophono	vuacatio

Contains Petroleum Distillates. Acid Equivalents: 2,4-dichlorophenoxyacetic acid - 23.7% - 2 lbs./gal.; triclopyr - 11.9% - 1 lb./gal.

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals CAUTION

Harmful If Swallowed • Causes Moderate Eye Irritation • Prolonged **Or Frequently Repeated Skin Contact May Cause Allergic Reactions** In Some Individuals. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

FIRST AID

IF SWALLOWED: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

NOTE TO PHYSICIAN: This product may pose an aspiration pneumonia hazard. Contains petroleum distillates.

SEE INSIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND COMPLETE DIRECTIONS FOR USE.

NET CONTENTS:

USER SAFETY RECOMMENDATIONS

lisers should:

- · Wash hands 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

This product is toxic to fish and may be toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift or runoff may adversely affect fish and nontarget plants. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters. SEE INSIDE BOOKLET FOR COMPLETE ENVIRONMENTAL HAZARDS STATEMENT.

DIRECTIONS FOR USE

Refer to label booklet for Directions for Use. Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order for Injunctive Relief in Washington Toxics Coalition et al. v. EP, (W.D. W.A.).

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal PESTICIDE STORAGE: Store above 10°F or agitate before use.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. 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 HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. 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. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by State and local authorities.

EPA Reg. No. 62719-260-5905	
EPA Est. 5905-IA-01	

AD 110609

Manufactured For HELENA CHEMICAL COMPANY 225 SCHILLING BOULEVARD, SUITE 300

COLLIERVILLE, TENNESSEE 38017

DPM #110203

PF-6854-8

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Harmful If Swallowed • Causes Moderate Eye Irritation • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals

Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of barrier laminate, nitrile rubber, neoprene rubber, and viton. If you want more options, follow the instructions for category *E* on an EPA chemical resistance category selection chart.

All mixers, loaders, applicators, flaggers, and other handlers must wear:

- · Long-sleeved shirt and long pants
- · Shoes plus socks
- · Chemical-resistant gloves made of any waterproof material such as barrier laminate, nitrile rubber, neoprene rubber, and viton
- Protective eyewear
- · Chemical-resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate

See "Engineering Controls" for additional requirements.

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 CONTROLS

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the 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)(4-6)].

USER SAFETY RECOMMENDATIONS

Users should:

- · Wash hands 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.

	FIRST AID			
IF SWALLOWED: • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give any liquid to the person. • Do not give any liquid to the person.				
IF IN EYES:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. 			
HOT LINE NUMBER				
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may a contact 1-800-992-5994 for emergency medical treatment information.				

NOTE TO PHYSICIAN: This product may pose an aspiration pneumonia hazard. Contains petroleum distillates.

This product is toxic to fish and may be toxic to aquatii present, or to intertidal areas below the mean high wate runoff may be hazardous to aquatic organisms in water ment washwaters.

This chemical has properties and characteristics associ where soils are permeable, particularly where the water

PHYSICAL (

Combustible. Do not use or store near heat or open f

DIRE

ENVIRO

It is a violation of Federal law to use this product in a mead all **Directions for Use** carefully before applying

STORAG

Do not contaminate water, food or feed by storage c **PESTICIDE STORAGE:** Store above 10°F or agitate

PESTICIDE DISPOSAL: Pesticide wastes are tox violation of Federal law and may contaminate grouu instructions, contact your State Pesticide or Envir nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Nonrefillable container. C Triple rinse or pressure rinse container (or equivalen contents into application equipment or a mix tank an with water and recap. Shake for 10 seconds. Pour ri or disposal. Drain for 10 seconds after the flow begin lows: Empty the remaining contents into application begins to drip. Hold container upside down over ap Insert pressure rinsing nozzle in the side of the conta after the flow begins to drip. Then offer for recycling, tion, or by other procedures allowed by State and Io

GENE

Crossbow* specialty herbicide is recommended for perennial broadleaf weeds, growing on rangeland, pern other non-crop areas, and industrial sites.

General Use Precautions and Restriction:

For use on plants in non-crop and non-timber areas or commercial use, or for commercial seed production, or

Apply this product only as specified on this label.

Be sure that use of this product conforms to all applica

Application Restrictions

Do not apply this product in a way that will contact wo may be in the area during application.

ENVIRONMENTAL	HAZARDS
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This product is toxic to fish and may be toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift or runoff may adversely affect fish and nontarget plants. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

PHYSICAL OR CHEMICAL HAZARDS

Combustible. 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 or feed by storage or disposal.

PESTICIDE STORAGE: Store above 10°F or agitate before use.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. 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 HANDLING: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. 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. Flopeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by State and local authorities.

GENERAL INFORMATION

Crossbow* specialty herbicide is recommended for control of most species of unwanted woody plants, as well as annual and perennial broadleaf weeds, growing on rangeland, permanent grass pastures, CRP, fence rows, non-irrigation ditchbanks, roadsides, other non-crop areas, and industrial sites.

General Use Precautions and Restrictions

For use on plants in non-crop and non-timber areas only. Not for use on crops, timber, or other plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.

Apply this product only as specified on this label.

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

Application Restrictions

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chart.

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.

Entry Restrictions

Do not allow people (or pets) to enter the treated a This product may not be applied to forage th

Chemigation

Do not apply this product through any type of irriga Foliar sprays should be applied during warm weath tions may provide less than desirable results. Use avoid contacting nearby susceptible crops o irrigation or domestic use. Read and follow a

Do not use on bentgrass. Do not use on newly see Do not reseed pastures within a minimum of three

Do not spray pastures containing desirable broadl can be tolerated. However, the stand and growth of grazing is deferred.

Do not apply **Crossbow*** directly to, or otherwise p citrus, flowers, fruit or ornamental trees, or other des

Under conditions which are conducive to evapora susceptible crops growing nearby. Excessive amou growth.

Crossbow* is formulated as a low volatile ester. He and rocks, and increasing ambient air temperatures risk for off-target injury to sensitive crops such as g

Grazing and Haying Restrictions

Except for lactating dairy animals, there are no gra: Grazing Lactating Dairy Animals: Do not allow lowing application of this product.

Do not harvest hay for 14 days after application.

Grazed areas of non-cropland and forestry sites ma

Slaughter Restrictions: During the season of a slaughter.

Avoid Injurious Spray Drift

Applications should be made only when hazards fr visible may seriously injure susceptible plants. Do n enough to be injured. Spray drift can be reduced by alent to the spray mixture. If a spray thickening age

With ground broadcast equipment, drift can be re 20 gallons of spray per acre; by keeping the opera sures for the specific nozzle type used (low pressi when the wind velocity is low (follow State regulat gun applications, select the minimum spray pressi a mistblower is not recommended.

With aerial applications, use a drift control system control additive or equivalent. Keep spray pressure: the Microfoil or the Thru-Valve booms, or other sys

Entry Restrictions

Do not allow people (or pets) to enter the treated area until sprays have dried.

This product may not be applied to forage that is to be cut and sold for commercial purposes.

Chemigation

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

Foliar sprays should be applied during warm weather when brush and weeds are actively growing. Application under drought conditions may provide less than desirable results. Use low spray pressures to minimize spray drift. **Apply Crossbow*** in a manner to avoid contacting nearby susceptible crops or other desirable plants and to avoid contaminating water intended for irrigation or domestic use. Read and follow all use precautions given on this label.

Do not use on bentgrass. Do not use on newly seeded grasses until grass has established a good root system and is tillering. Do not reseed pastures within a minimum of three weeks after treatment.

Do not spray pastures containing desirable broadleaf forbs, especially legumes such as clover, unless injury or loss of such plants can be tolerated. However, the stand and growth of established grasses usually is improved, particularly when rainfall is adequate and grazing is deferred.

Do not apply **Crossbow*** directly to, or otherwise permit it to come into direct contact with cotton, grapes, tobacco, vegetable crops, citrus, flowers, fruit or ornamental trees, or other desirable broadleaf plants and do not permit spray mists containing it to drift onto them.

Under conditions which are conducive to evaporation (high temperatures and low humidity), vapors from this product may injure susceptible crops growing nearby. Excessive amounts of this herbicide in the soil may temporarily inhibit seed germination and plant growth.

Crossbow* is formulated as a low volatile ester. However, the combination of spray contact with impervious surfaces, such as roads and rocks, and increasing ambient air temperatures, may result in an increase in the volatility potential for this herbicide, increasing a risk for off-target injury to sensitive crops such as grapes and tomatoes.

Grazing and Haying Restrictions

Except for lactating dairy animals, there are no grazing restrictions following application of this product.

Grazing Lactating Dairy Animals: Do not allow lactating dairy animals to graze treated areas until the next growing season following application of this product.

Do not harvest hay for 14 days after application.

Grazed areas of non-cropland and forestry sites may be spot treated if they comprise no more than 10% of the total grazable area. **Slaughter Restrictions:** During the season of application, withdraw livestock from grazing treated grass at least 3 days before slaughter.

Avoid Injurious Spray Drift

Applications should be made only when hazards from spray drift are at a minimum. 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. Spray drift can be reduced by adding a spray thickening agent such as Nalco-Trol, Liberate, Chem-Trol or equivalent to the spray mixture. If a spray thickening agent is used, follow all use recommendations and precautions on the product label.

With ground broadcast equipment, drift can be reduced by keeping the spray boom as low as possible; by applying no less than 20 gallons of spray per acre; by keeping the operating spray pressures at the lower end of the manufacturer's recommended pressures for the specific nozzle type used (low pressure nozzles are available from spray equipment manufacturers); and by spraying when the wind velocity is low (follow State regulations). Avoid calm conditions which may be conducive to air inversions. In handgun applications, select the minimum spray pressure that will provide adequate plant coverage (without forming a mist). The use of a mistblower is not recommended.

With aerial applications, use a drift control system such as Microfoil or Thru-Valve booms, or use Nalco-Trol or Arborchem 38-F drift control additive or equivalent. Keep spray pressures low enough to provide coarse spray droplets. Do not use a thickening agent with the Microfoil or the Thru-Valve booms, or other systems that cannot accommodate thick sprays.

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SPF

Avoiding spray drift at the application site is the related factors determine the potential for spray when making decisions.

2,4-D esters may volatilize during conditions of and high temperatures.

Droplet Size

When applying sprays that contain 2,4-D as the ingredients that require a coarse or coarser spi diameter of 385 microns or greater for spinning When applying sprays that contain 2,4-D mixec a medium or coarser spray (ASAE standard 57 zles.

Wind Speed

Do not apply at wind speeds greater than 10 m are not sensitive areas (including, but not limited crops) within 250 feet downwind. If applying a r

Temperature Inversions

If applying at wind speeds less than 3 mph, the atmospheric conditions exist at or below nozz atmospheric conditions.

Susceptible Plants

Do not apply under circumstances where spray thereof rendered unfit for sale, use or consum trees, grapes (in growing stage), fruit trees (fol other vegetables, or tobacco. Small amounts (

Other State and Local Requirement

Applicators must follow all State and local pest more stringent regulations, they must be obser

Equipment

All aerial and ground application equipment mu

Aerial Application

and high temperatures.

The boom length must not exceed 75% of the Release spray at the lowest height consistent above the crop canopy unless a greater height way applications.

When applications are made with a crosswind, adjusting the path of the aircraft upwind.

Ground Boom Application

Do not apply with a nozzle height greater than 2,4-D esters may volatilize during conditions of

drift. Only protected handlers

) areas where surface water is and nontarget plants. Drift and

ater when disposing of equip-

e use of this chemical in areas

ray mixture, or rinsate is a

f by use according to label vaste representative at the

lows: Empty the remaining

rip. Fill the container 1/4 full

or store rinsate for later use

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or 10 seconds after the flow

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onds. Drain for 10 seconds

itary landfill, or by incinera-

lants, as well as annual and

gation ditchbanks, roadsides,

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tamination.

SPRAY DRIFT MANAGEMENT

irposes.

Application under drought condioly Crossbow* in a manner to aminating water intended for

root system and is tillering.

less injury or loss of such plants larly when rainfall is adequate and

grapes, tobacco, vegetable crops, ists containing it to drift onto them. Hors from this product may injure nhibit seed germination and plant

pervious surfaces, such as roads tial for this herbicide, increasing a

duct.

until the next growing season fol-

n 10% of the total grazable area. ited grass at least 3 days before

ntities of spray, which may not be e crops or ornamental plants near Trol, Liberate, Chem-Trol or equivprecautions on the product label.

ossible; by applying no less than inufacturer's recommended presmanufacturers); and by spraying ducive to air inversions. In handithout forming a mist). The use of

lalco-Trol or Arborchem 38-F drift to not use a thickening agent with Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weatherrelated factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

2,4-D esters may volatilize during conditions of low humidity and high temperatures. Do not apply during conditions of low humidity and high temperatures.

Droplet Size

When applying sprays that contain 2,4-D as the sole active ingredient, or when applying sprays that contain 2,4-D mixed with active ingredients that require a coarse or coarser spray, apply only as a coarse or coarser spray (ASAE standard 572) or a volume mean diameter of 385 microns or greater for spinning atomizer nozzles.

When applying sprays that contain 2,4-D mixed with other active ingredients that require a medium or more fine spray, apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Wind Speed

Do not apply at wind speeds greater than 10 mph. Only apply this product if the wind direction favors on-target deposition and there are not sensitive areas (including, but not limited to, residential areas, bodies of water, known habitat for nontarget species, nontarget crops) within 250 feet downwind. If applying a medium spray, leave one swatch unsprayed at the downwind edge of the treated field.

Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if: a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

Susceptible Plants

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Susceptible crops include, but are not limited to, cotton, okra, flowers, fruit trees, grapes (in growing stage), fruit trees (foliage), soybeans (vegetative stage), ornamentals, sunflowers, tomatoes, beans, and other vegetables, or tobacco. Small amounts of spray drift that may not be visible may injure susceptible broadleaf plants.

Other State and Local Requirements

Applicators must follow all State and local pesticide drift requirements regarding application of 2,4-D herbicides. Where states have more stringent regulations, they must be observed.

Equipment

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

Aerial Application

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. This requirement does not apply to forestry or rights-of-way applications.

When applications are made with a crosswind, the swatch will be displaced downwind. The applicator must compensate for this by adjusting the path of the aircraft upwind.

Ground Boom Application

Do not apply with a nozzle height greater than 4 feet above the crop canopy.

2,4-D esters may volatilize during conditions of low humidity and high temperatures. Do not apply during conditions of low humidity and high temperatures.

Crossbow* in water forms an emulsion (not Water Spray: Fill the spray tank about half tion running. Mix thoroughly and continue m

Size of Sprayer (Gallons)	
1	
3	
5	
50	
100	

APF

Restrictions:

Rangeland and Permanent Pastures

- Preharvest Interval: Do not cut forage rules to determine whether grass or hay m followed.
- Maximum Application Rate: Apply no range and pasture sites, including rights-(
- Use 2 gallons or more of spray solution p
- Do not make more than one application p
 Do not apply within 30 days of previous a
- If grass is to be cut for hay, Agricultural U

Non-Cropland

Postemergence (Annual and Perennial

- Do not make more than two applications
- Maximum of 1 gallon (1 lb. ae triclopyr + :
- Minimum of 30 days between application
 Use 2 or more gallons of spray solution p
- Ose 2 or more galloris of spray solutions

Postemergence (Woody Plants):

- Limited to 1 application per year.Maximum of 2 gallons (2 lbs. ae triclopyr
- Use 2 gallons or more of spray solution p
- Use 2 galions of more of spray solution p

Applications to non-cropland areas are not a commercial use, or for commercial seed prc

General Weed Control

Broadcast Treatment (Ground Equipme Use up to 1-1/2 gallons of Crossbow* per a are actively growing. Best time for treatmen when plants are actively growing. Re-treatr horsenettle, kudzu, milkweed, perennial sc regarding the use of drift control additives a

Spot Treatment

To control broadleaf weeds in small areas \boldsymbol{v} thoroughly wet all foliage.

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ply during conditions of low humidity

that contain 2,4-D mixed with active AE standard 572) or a volume mean

ium or more fine spray, apply only as or greater for spinning atomizer noz-

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2,4-D herbicides. Where states have

appropriate carriers or surrogates.

pray at a height greater than 10 feet bes not apply to forestry or rights-of-

plicator must compensate for this by

ply during conditions of low humidity

MIXING DIRECTIONS

Crossbow* in water forms an emulsion (not a solution), and separation may occur unless the spray mixture is agitated continuously. Water Spray: Fill the spray tank about half full with clean water. Then add the Crossbow* and complete filling the tank with agitation running. Mix thoroughly and continue moderate agitation while spraying.

Size of Sprayer	Amount of Crossbow* Required for Spray Mixture		
(Gallons)	1%	1.5%	4%
1	1-1/3 fl. oz.	2 fl. oz.	5-1/3 fl. oz.
3	4 fl. oz.	6 fl. oz.	1 pt.
5	6-2/3 fl. oz.	10 fl. oz.	1-2/3 pts.
50	2 qts.	3 qts.	2 gals.
100	1 gal.	1.5 gals.	4 gals.

APPLICATION INSTRUCTIONS

Restrictions:

Rangeland and Permanent Pastures

Preharvest Interval: Do not cut forage for hay within 14 days of application. For program lands, such as CRP, consult program
rules to determine whether grass or hay may be used. The more restrictive requirements of the program rules or this label must be
followed.

- Maximum Application Rate: Apply no more than 1 gallon (1 lb. ae triclopyr + 2 lbs. ae 2,4-D) per acre per growing season on range and pasture sites, including rights-of-way, fence rows, or any area where grazing or harvesting is allowed.
- · Use 2 gallons or more of spray solution per acre.
- Do not make more than one application per year.
- Do not apply within 30 days of previous application.
- If grass is to be cut for hay, Agricultural Use Requirements for the Worker Protection Standard are applicable.

Non-Cropland

Postemergence (Annual and Perennial Weeds):

- Do not make more than two applications per year.
- Maximum of 1 gallon (1 lb. ae triclopyr + 2 lbs. ae per acre 2,4-D) per application.
- Minimum of 30 days between application.
- Use 2 or more gallons of spray solution per acre.

Postemergence (Woody Plants):

- Limited to 1 application per year.
- Maximum of 2 gallons (2 lbs. ae triclopyr + 4 lbs. ae per acre 2,4-D) per year.
- Use 2 gallons or more of spray solution per acre.

Applications to non-cropland areas are not applicable to treatment of commercial timber or other plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.

General Weed Control

Broadcast Treatment (Ground Equipment and Helicopter)

Use up to 1-1/2 gallons of **Crossbow*** per acre in enough water to deliver 10 to 30 gallons of total spray per acre. Apply when weeds are actively growing. Best time for treatment of biennial and winter annual weeds is when the plants are in the rosette stage. Treat when plants are actively growing. Re-treatment of hard-to-control weeds such as field bindweed, chicory, dogfennel, goldenrod, horsenettle, kudzu, milkweed, perennial sowthistle, leafy spurge, and Canada thistle may be necessary. See recommendations regarding the use of drift control additives as listed in the "General Use Precautions" section under "Avoid Injurious Spray Drift".

Spot Treatment

To control broadleaf weeds in small areas with a hand sprayer, use 4 to 6 fl. oz. of **Crossbow*** in 3 gallons of water and spray to thoroughly wet all foliage.

General Weed Control

High-Volume Foliar Treatment or Spot Treatment			
1% Mixture	1% Mixture	1% to 1.5% Mixture	1.5% Mixture
	Foliar Broad	cast Applications	
1 qt./acre	2 qts./acre	2-4 qts./acre	4 qts./acre
blueweed (B) buttercup, annual (A) horseweed, (marestail) (A) lambsquarters, common (A) mustard, wild (A) ragweed, common (A) spurge, thyme-leaf (A)	bedstraw, annual (A) bluebur (A) clover, bur (A) cocklebur (A) cocklebur (A) cocklebur (A) dogbane, hemp (P) (TG) ironweed, tall (P) lettuce, wild (A,WA) mustard, tansy (WA) radish, wild (A) ragwort, tansy (B) shepherd's purse (WA)	amaranth, spiny (A) buttercup, tall (P) chickweed, mousear (P) clover, white (P) dandelion (P) dock, curly (P) galinsoga, hairy (A) goatsbeard (A,B) henbit (B,WA) ironweed, western (P) ivy, ground (P) kochia (A) lespedeza (A) oxalis (P) pennycress, field (WA) pepperweed, field (A,B) pigweed, redroot (A) plantain, broadleaf (P) plantain, broadleaf (P) plantain, narrow-leaf (P) purslane, annual (A) sneezeweed, bitter (A) sowthistle, annual (A) sunflower (A) thistle, Russian (A) vetch (P) violet, wild (P) wormwood, biennial (B) yellow rocket (P,B)	bindweed, field (P) (TG) carrot, wild (B) chicory (P) suppression cinquefoil (A,B,P) dogfennel (P) suppression fleabane, annual (A,B) goldenrod (P) (TG) horsenettle (P) kudzu (P) (TG) marshelder (A) milkweed (P) suppression pepperweed, perennial (P) pokeweed (P) sesbania, hemp (A) sowthistle, perennial (P) (TG) thistle, bull (B) thistle, Canada (P) (TG) thistle, musk (nodding) (B) yarrow (P)

(A) Annual (B) Biennial (WA) Winter Annual (P) Perennial (TG) Top growth control only.

Repeat treatment may be necessary.

Note: Best time for treatment of biennial and winter annuals is when plants are in the rosette stage.

Use in Liquid Nitrogen Fertilizer

Crossbow* may be combined with liquid nitrogen fertilizer suitable for foliar application to accomplish weeding and feeding of grass pastures in one operation. Use **Crossbow*** in accordance with recommendations for grass pastures as given on this label. Use liquid fertilizer at rates recommended by supplier or Extension Service Specialist. Test for mixing compatibility using desired procedure and spray mix proportions in clear glass jar before mixing in spray tank. A compatibility aid such as Unite or Compex may be needed in some situations. **Compatibility is best with straight liquid nitrogen fertilizer solutions. Mixing with N-P-K solutions or suspensions may not be satisfactory even with the addition of compatibility aid. Premixing Crossbow*** with 1 to 4 parts water may help in difficult situations.

Fill the spray tank about half full with the liquid fertilizer, then add the herbicide with agitation and complete filling the tank with fertilizer. Apply immediately and continue agitation in the spray tank during application. **Do not store spray mixture.** Application during very cold weather (near freezing) is not advisable.

NOTE: Do not use spray equipment for other applications to land planted, or to be planted to susceptible crops or desirable plants, **unless** it has been determined that all phytotoxic herbicide residue has been removed by thorough cleaning of the equipment.

Conservation Reserve Program (CRP) For E

Use **Crossbow*** on CRP acres only when the perennial will increase potential for injury to the grasses.

Restrictions: When applying to CRP lands, follow all ϵ restriction imposed by the pesticide label or by the USDA. (CRP) guidelines regarding cropping and haying restrictior Do not use on bentgrass or newly seeded grass.

Broadcast Application (Ground or Aerial)

Apply 1 to 2 quarts of **Crossbow*** for small weed contriceptible woody species control using enough water to de Follow precautions and recommendations outlined under

For basal and dormant brush treatments, follow application

Woody Plant Control Easy-to-Control Species

1.5 gals./acre broadcast application or 1 to 1.5% mixture

alder	cascara
ash	Ceanothus spp.
beech	cherry (except black)
birch	cottonwood
blackberry	dogwood
black locust	elderberry
boneset	hawthorn
boneset	nawmonn

¹basal or dormant stem application only

Harder-to-Control Species

High-volume applications, 1.5% mixture, conventional bit 2 gallons per acre will increase the degree of control of t

buckbrush (Symphoricarpos spp.)	hazel
(suppression)	honeylocust
common persimmon (suppression)	pine (suppre
elm (except winged elm)	Russian oliv

High Volume Foliar Applications Through H

Using a power or hand-pressured spray gun, apply a foli water to make 100 gallons of total spray mix. See mixing 1.5% spray mix.

Spray to give thorough coverage of the foliage, wetting all foliage density, the total amount of required spray is usual

For best results, applications should be made when wooc full leaf in the spring to early summer when moisture and te ment may be expected during the early to mid-flowering :

The required spray volume will increase substantially if the efficiently. Large brush or trees may be controlled better to

Foliar Broadcast Sprays (Ground Equipmen

Apply 1.5 to 4 gallons of this product in enough water tr broadcast spray equipment that provides uniform spray c growing well. The favorable period for treatment is most depending on soil moisture and other conditions. Follo needed, especially if treating under less favorable conditi

Conservation Reserve Program (CRP) For Established Permanent Grass Stands

Use **Crossbow*** on CRP acres only when the perennial grasses are established. Conditions that stress grasses, such as drought, will increase potential for injury to the grasses.

Restrictions: When applying to CRP lands, follow all applicable State and Federal regulations. Follow the most severe grazing restriction imposed by the pesticide label or by the USDA Acreage Conservation Reserve Program. After that time period, follow local (CRP) guidelines regarding cropping and haying restrictions. Do not use **Crossbow*** if legumes are a desired cover crop during CRP. Do not use on bentgrass or newly seeded grass.

Broadcast Application (Ground or Aerial)

Apply 1 to 2 quarts of **Crossbow*** for small weed control or up to 1.5 gallons of **Crossbow*** for deep-rooted perennial and susceptible woody species control using enough water to deliver 10 or more gallons of total spray volume per acre.

Follow precautions and recommendations outlined under "Foliar Low-Volume Broadcast Applications".

For basal and dormant brush treatments, follow application directions listed in "Woody Plant Control".

Woody Plant Control

Easy-to-Control Species

1.5 gals./acre broadcast application or 1 to 1.5% mixtures for high-volume foliar applications.

alder	cascara	honeysuckle	sumac
ash	Ceanothus spp.	maples (except bigleaf and vine ¹)	sycamore
beech	cherry (except black)	multiflora rose	tamarack
birch	cottonwood	poison ivy	wax myrtle (top growth)
blackberry	dogwood	poison oak	white oak
black locust	elderberry	sassafras (top growth)	wild grape
boneset	hawthorn	scotch broom	willow

¹ basal or dormant stem application only

Harder-to-Control Species

High-volume applications, 1.5% mixture, conventional basal or dormant stem applications are recommended. A broadcast rate of 2 gallons per acre will increase the degree of control of these species.

buckbrush (Symphoricarpos spp.)	hazel	salmonberry (suppression)
(suppression)	honeylocust (suppression)	sweetgum
common persimmon (suppression)	pine (suppression)	trumpetcreeper (suppression)
elm (except winged elm)	Russian olive	Virginia creeper (suppression)

High Volume Foliar Applications Through Handguns

Using a power or hand-pressured spray gun, apply a foliar wetting spray containing 1 to 1-1/2 gallons of this product in sufficient water to make 100 gallons of total spray mix. See mixing chart under "Mixing Directions" for preparing small amounts of this 1 to 1.5% spray mix.

Spray to give thorough coverage of the foliage, wetting all leaves and green stems to the drip point. Depending on the plant size and foliage density, the total amount of required spray is usually 100 to 200 gallons per sprayed acre.

For best results, applications should be made when woody plants are actively growing. This is most likely to occur for a period after full leaf in the spring to early summer when moisture and temperature are favorable. For multiflora rose control, the best time for treatment may be expected during the early to mid-flowering stage.

The required spray volume will increase substantially if the brush exceeds 5 feet in height. Brush over 8 feet tall is difficult to treat efficiently. Large brush or trees may be controlled better by basal or mechanical methods.

Foliar Broadcast Sprays (Ground Equipment and Helicopter)

Apply 1.5 to 4 gallons of this product in enough water to deliver 10 to 30 gallons total spray per acre. Use a boom type or other broadcast spray equipment that provides uniform spray coverage over the top of the foliage and make applications when plants are growing well. The favorable period for treatment is most likely to occur after full leaf in the spring and continue into early summer, depending on soil moisture and other conditions. Follow-up treatment with foliar high-volume or basal-type treatments may be needed, especially if treating under less favorable conditions.

Aerial Application (Helicopter Only)

Use Nalco-Trol or equivalent drift control additive as re equivalent drift control system. Thickened sprays prepbe utilized if they control spray drift as well as Nalco-1 all recommendations and precautions on the product I other systems that cannot accommodate thick sprays

Dormant Stem Applications

To control susceptible woody species such as multiflo No. 2 fuel oil or kerosene to make 100 gallons of spra and any ground sprouts. Treat at any time when the b winter to early spring applications. Do not treat when woody species such as blackberries, substitute other mixture to thoroughly wet upper and lower stems as d ter control. Brush over 8 feet in height is difficult to tre large trees.

Conventional Basal Bark and Stump App

For control of susceptible woody plants and to prever oil, No. 1 or No. 2 fuel oil or kerosene to make 100 gal to 20 inches from the ground. Thoroughly wet all the t visibly wet the ground at the base of the stems or trunk when snow or water prevent spraying to the ground I Basal treatments are less effective on trees with diame and treat the stumps. Treat stumps the same as the t bark is the most important area of the cut surface to ti

Thinline Basal Applications

For the control of small multiflora rose, apply a horizo stems are less than 1/2 inch in diameter and have thi coverage may be difficult. Basal bark or dormant stem forecasted. Best time for multiflora rose control using t are just about breaking dormancy to actively growing. 1/2 inch in diameter is treated, it should be completely needed for adequate coverage of these larger stems i

Old stems with thickened bark require more herbicide t result if resprouts are treated after they are one year c diameter.

/eeding and feeding of as given on this label. .patibility using desired s Unite or Compex may s. Mixing with N-P-K nixing Crossbow* with

.5% Mixture

4 gts./acre

ild (B)

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I (P) suppression

eed, perennial (P)

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pps or desirable plants, of the equipment.

Aerial Application (Helicopter Only)

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to occur for a period after trol, the best time for treat-

feet tall is difficult to treat

Use a boom type or other plications when plants are ontinue into early summer, I-type treatments may be

Use Nalco-Trol or equivalent drift control additive as recommended by the manufacturer of the Microfoil boom, Thru-Valve boom, or equivalent drift control system. Thickened sprays prepared by using high viscosity invert systems or other drift reducing systems may be utilized if they control spray drift as well as Nalco-Trol or the above mentioned booms. If a spray thickening agent is used, follow all recommendations and precautions on the product label. Do not use a thickening agent with the Microfoil or Thru-Valve booms or other systems that cannot accommodate thick sprays.

Dormant Stem Applications

To control susceptible woody species such as multiflora rose and blackberry, mix 1 to 4 gallons of this product in diesel oil, No. 1 or No. 2 fuel oil or kerosene to make 100 gallons of spray and apply to thoroughly wet upper and lower stems including the root collar and any ground sprouts. Treat at any time when the brush is dormant and the bark is dry. Best results have been obtained with late winter to early spring applications. Do not treat when snow or water prevent spraying to the ground line. For the most susceptible woody species such as blackberries, substitute other diluents or oils only in accordance to manufacturer's recommendations. Apply mixture to thoroughly wet upper and lower stems as described above. The more tolerant species may require total oil carrier for better control. Brush over 8 feet in height is difficult to treat efficiently. Basal or mechanical methods may be better suited for control of large trees.

Conventional Basal Bark and Stump Applications

For control of susceptible woody plants and to prevent or control regrowth from cut stumps, mix 4 gallons of this product in diesel oil, No. 1 or No. 2 fuel oil or kerosene to make 100 gallons of spray mixture. Spray the basal parts of brush or trees to a height of 15 to 20 inches from the ground. Thoroughly wet all the basal bark area including crown buds and ground sprouts. Spray runoff should visibly wet the ground at the base of the stems or trunks. Basal and cut stump applications can be made at any time of the year except when snow or water prevent spraying to the ground line. Best results have been obtained with winter to early spring applications. Basal treatments are less effective on trees with diameters larger than 6 to 8 inches. For better regrowth control, cut the larger trees and treat the stumps. Treat stumps the same as the trunks and also treat the freshly cut surface. The cambium layer just inside the bark is the most important area of the cut surface to treat.

Thinline Basal Applications

For the control of small multiflora rose, apply a horizontal thin line of undiluted herbicide across all the stems at a height where the stems are less than 1/2 inch in diameter and have thinner bark to penetrate. For bushes with large numbers of stems (over 3 or 4), coverage may be difficult. Basal bark or dormant stem applications may be more effective. Treat when the bark is dry and rain is not forecasted. Best time for multiflora rose control using this application method is during early spring to early summer, when the plants are just about breaking dormancy to actively growing. Apply approximately 20 mL undiluted product per bush. Wherever a stem over 1/2 inch in diameter is treated, it should be completely ringed with herbicide to obtain best results. Additional herbicide is likely to be needed for adequate coverage of these larger stems in a bush or clump.

Old stems with thickened bark require more herbicide than young stems with thin bark. Where regrowth is treated, better root kill may result if resprouts are treated after they are one year old and the bark has lost its green color, but before sprouts reach one inch in diameter.

Terms

If terms of the following **Warranty Disclaimer**, **I** unopened package at once to the seller for a full re buyer or any other user constitutes acceptance of of **Remedies**.

Helena Chemical Company warrants that this proc purposes stated on the label when used in strict a extent permitted by law, Helena Chemical Compai ITY OR FITNESS FOR A PARTICULAR PURPOSE

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It is impossible to eliminate all risks associated wi sequences may result because of such factors as label, such as unfavorable temperatures, soil conc hurricanes), presence of other materials, the mani Chemical Company or the seller. To the extent per

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To the extent permitted by law, the exclusive remucontract, negligence, strict liability, or other legal following:

1. Refund of purchase price paid by buyer or user 2. Replacement of amount of product used.

To the extent permitted by law, Helena Chemical C this product unless Helena Chemical Company is p in no case shall Helena Chemical Company be liat

The terms of the **Warranty Disclaimer**, **Inhere** written or verbal statements or agreements. No e to vary or exceed the terms of the **Warranty Dis**

© Helena Holding Company, 2009. *Trademark of Dow AgroSciences LLC sil boom, Thru-Valve boom, or ner drift reducing systems may lickening agent is used, follow crofoil or Thru-Valve booms or

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If terms of the following **Warranty Disclaimer**, **Inherent Risks of Use** and **Limitation of Remedies** are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. To the extent permitted by law, otherwise, use by the buyer or any other user constitutes acceptance of the terms under **Warranty Disclaimer**, **Inherent Risks of Use** and **Limitation of Remedies**.

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

2. Replacement of amount of product used.

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LOW VOLATILE \

For the control of most kinds of unwan rangeland, permanent grass pastures, ditchbanks, roadsides, other non-crop

ACTIVE INGREDIENTS:

2,4-dichlorophenoxyacetic acid, butoxyethyl e triclopyr BEE: 3,5,6-trichloro-2-pyridinyloxyace OTHER INGREDIENTS: TOTAL Contains Petroleum Distillates. Acid Equivalen

KEEP OU

See Inside Booklet for

Agricultural Chemical: Do not ship or store with food, EPA Reg. No. 62719-260-5905 EPA Est. 5905-IA-01

HELEN

Job #60293

nedies are not acceptable, return itted by law, otherwise, use by the nt Risks of Use and Limitation

Iabel and is reasonably fit for the nerent risks set forth below. To the NARRANTY OF MERCHANTABIL-ANTY.

rmance, or other unintended con-(including conditions noted on the ssive rainfall, drought, tornadoes, are beyond the control of Helena y buyer.

roduct (including claims based on al Company's election, one of the

s resulting from handling or use of ng. To the extent permitted by law, psees.

nedies cannot be varied by any impany or the seller is authorized any manner.



LOW VOLATILE WEED AND BRUSH HERBICIDE

For the control of most kinds of unwanted trees and brush, as well as annual and perennial broadleaf weeds on rangeland, permanent grass pastures, Conservation Reserve Program (CRP) acres, fence rows, non-irrigation ditchbanks, roadsides, other non-crop areas and industrial sites

ACTIVE INGREDIENTS:

2,4-dichlorophenoxyacetic acid, butoxyethyl ester	34.4%
triclopyr BEE: 3,5,6-trichloro-2-pyridinyloxyacetic acid, butoxyethyl ester	16.5%
OTHER INGREDIENTS:	49.1%
TOTAL	100.0%
Operative Detailed and Detailed a Anid Environmental O.A. distribution in a second solution of A. (a second s	/mal

Contains Petroleum Distillates. Acid Equivalents: 2,4-dichlorophenoxyacetic acid - 23.7% - 2 lbs./gal.; triclopyr - 11.9% - 1 lb./gal.

KEEP OUT OF REACH OF CHILDREN CAUTION

See Inside Booklet for First Aid and Additional Precautionary Statements

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

EPA Reg. No. 62719-260-5905 EPA Est. 5905-IA-01 AD 110609

Manufactured For

HELENA CHEMICAL COMPANY

225 SCHILLING BOULEVARD, SUITE 300 • COLLIERVILLE, TENNESSEE 38017

Job #60293