



## Ceridian 2EC Herbicide

**DIY Habitat Fact Sheet** 

## **Ceridian 2EC herbicide: Clethodim**



Provides selective postemergence control of annual and perennial grasses within certain broadleaf crops such as alfalfa, clover, and brassica species. Only susceptible plants emerged at the time of application will be controlled. Symptomology is typically observed within 7 to 14 days depending on grass species treated and environmental conditions. When applied at the appropriate rate and timing, Ceridian 2EC will provide effective control of susceptible annual and perennial grass species.

## **Activator 90 adjuvant: NIS**



The addition of Activator 90 is highly recommended and will improve control of the target plant species. This adjuvant aids in adhesion and spreading of the spray droplets on the leaf surface resulting in improved herbicide penetration.

## **Application timing**



Apply as a postemergence treatment to actively growing grasses. Applications made to grasses stressed by insufficient moisture, cold temperatures, or to target grass species exceeding specified growth stages may result in unsatisfactory control. A second application of Ceridian 2EC may be needed to enhance control of problematic perennial grassy weeds. Make a second application to actively growing grass 2-3 weeks after emergence of new growth.

#### Restrictions



Do not apply if rain is expected within 1 hour of application as control may be unsatisfactory. Do not apply a postemergence broadleaf herbicide within one day following application of Ceridian 2EC. Cultivation of treated grasses 7 days prior to or within 7 days after application may reduce level of weed control.

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The following mix rates for Ceridian 2EC and Activator 90 are within label guidelines and have proven effective.

#### 1 acre treatment:

Water: 15+ gallons (use higher volumes of water with heavy grass pressure or when grasses are at or near

maximum height)

Ceridian 2EC: 8 - 16 fl oz<sup>1</sup> Activator 90: 8 fl oz

<sup>1</sup> Use 8 fluid ounces for Brassica leafy greens such as collards, mustards, rape; chicory, radish, root vegetables such as turnip, pea species, legume vegetables, and cow peas. Use 16 fluid ounces for alfalfa, clover, and soybeans.

Smaller sprayers: 5 gallons (treats ¼ acre) 1 gallon

Water:5 gallons1 gallonCeridian 2EC:2.5 - 5 fl oz²0.5 - 1 fl oz³Activator 90:2.75 fl oz0.75 fl oz

<sup>2</sup> Use 2.5 fl oz for Brassica leafy greens such as collards, mustards, rape; chicory, radish, root vegetables such as turnip, pea species, legume vegetables, and cow peas. Use 5 fl oz for alfalfa, clover, and soybeans.

<sup>3</sup> Use 0.5 fl oz for Brassicas leafy greens such as collards, mustards, rape; chicory, radish, root vegetables such as turnip, pea species, legume vegetables, and cow peas. Use 1 fl oz for alfalfa, clover, and soybeans.

For use with the following Food Plot Mixes:

Clover Kandy

**Dove Kandy** 

C Turkey

Lucky 13

Fatal Fall Forage

Big Buck Brassica











# **Cryder Herbicide**

#### **DIY Habitat Fact Sheet**

## **Cryder herbicide: Sulfosulfuron**



A selective post emergence herbicide for the control of both annual and perennial grasses and broadleaf weeds. This product is mainly associated with Johnsongrass Control. Only existing plants at the time of application will be controlled. Susceptible plants that germinate and emerge after the application will not be controlled.

## **Activator 90 adjuvant: NIS**



The use of Activator 90 is required for all post emergence applications to optimize control. Activator 90 aids in adhesion and spreading of the spray droplets on the plant foliage as well as penetration of the herbicide through the leaf surface.

## **Application timing**



Best results are obtained when weeds are actively growing and not disturbed by mowing for at least 14 days prior to and following application. Apply to target weed species any time after full leaf expansion in the summer through fall when target species begins to change color and drop leaves.

For the best control of johnsongrass wait until the target plants are at least 18-24 inches tall.

#### **Use Precautions & Restrictions**



When mixing or applying Cryder wear long-sleeved shirt, long pants, shoes, socks, protective eyewear, and chemical resistant gloves. Weeds stressed by drought are less susceptible to Cryder. Heavy rainfall soon after application (less than 2 hours) may wash Cryder off the foliage and a repeat application may be needed. Do not allow Cryder to contact roots or foliage of desirable vegetation, areas where roots of desirable vegetation may extend, or areas where Cryder may be washed or moved into contact with roots of desirable vegetation. Do not use Cryder on or around athletic fields, golf courses, residential or commercial turf sites, or sod and turfgrass seed farms.

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## Time to symptomology



Soon after treatment growth is inhibited. Susceptible plants may appear dark green and stunted while affected leaves will turn yellow and/or red. Visible effects may not be observed for 1 to 3 weeks after application. Warm and moist conditions following application will accelerate activity whereas cool, dry conditions will result in a delayed response.

The following mix rates for Cryder and Activator 90 are within label guidelines and have proven effective.

#### **Directed, Spot Treatment**

#### **5 Gallon Spray Tank**

- 1) Fill tank > ½ full of water
- 2) Add 0.05 oz (0.3 tsp) Cryder
- 3) Add 3.5 fl oz Activator 90
- 4) Add remaining water to fill tank

#### 25 Gallon Spray Tank

- 1) Fill tank > ½ full of water
- 2) Add 0.25 oz (1.5 tsp) Cryder
- 3) Add 8 oz Activator 90
- 4) Add remaining water to fill tank











# **Food Plot Site Preparation**

**DIY Habitat Fact Sheet** 

## **Eraser herbicide: Glyphosate - 41%**



Provides non-selective control of many grass and broadleaf weed species which would otherwise compete with the planted crop. Only plants emerged at the time of application will be controlled. Susceptible plants that emerge after the application will not be controlled.

## 2,4-D Amine herbicide



Controls a broad range of broadleaf weeds and is an excellent tank mix partner with Eraser. Tank mixing 2,4-D Amine with Eraser will broaden the spectrum of susceptible broadleaf weeds controlled and provide superior control of tough annual and biennial broadleaf weeds.

## **Activator 90 adjuvant: NIS**



The addition of Activator 90 is highly recommended and will improve control of the target plant species. Activator 90 aids in adhesion and spreading of the spray droplets to the plant foliage as well as penetration of the herbicide through the leaf surface.

#### **Benefits**



When applied at the proper use rate and time, this treatment will provide initial control of unwanted vegetation prior to food plot establishment. Controlling unwanted vegetation prior to planting is a critical first step in successful food plot establishment.

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Target plant species should be actively growing at the time of herbicide application. Do not mow or disturb the vegetaton 7-10 days prior to or within 7 after application. If the target weeds are dense and mature, mow the site first and allow sufficient foliage regrowth prior to treatment.

The following mix rates for Eraser, 2,4-D Amine, and Activator 90 are within label guidelines and have proven effective.

#### 1 Acre Broadcast\* Treatment

#### **Smaller Sprayers**

	-	
	5 Gallon (treats approximately ¼ acre)	1 Gallon
1) Fill spray tank > ½ full of water	1) Fill spray tank > ½ full of water	1) Fill spray tank > ½ full of water
2) Add 2 quarts Eraser	2) Add 16 fl oz Eraser	2) Add 3.2 fl oz Eraser
3) Add 1 quart 2,4-D Amine	3) Add 8 fl oz 2,4-D Amine	3) Add 1.6 fl oz 2,4-D Amine
4) Add 8 oz Activator 90	4) Add 2 fl oz Activator 90	4) Add 0.4 fl oz Activator 90
5) Add remaining water to fill tank	5) Add remaining water to fill tank	5) Add remaining water to fill tank

<sup>\*</sup>Application volume should be a minimum of 20 gallons per acre.













# Glyphosate 5.4 Herbicide

**DIY Habitat Fact Sheet** 

## **Glyphosate 5.4 herbicide:**



Provides non-selective control of many herbaceous and woody plants. Approved for use in both upland and aquatic sites. Only plants emerged at the time of application will be controlled. Susceptible plants that emerge after the application will not be controlled.

## **Activator 90 adjuvant: NIS**



The addition of Activator 90 is highly recommended and will improve control of the target plant species. Activator 90 aids in adhesion and spreading of the spray droplets to the plant foliage as well as penetration of the herbicide through the leaf surface.

## Suggested use sites



Aquatic areas such as ponds, lakes, reservoirs; forests, fence rows, non-irrigation ditch banks, farm buildings, and other non-crop areas for the control of grasses, broadleaf weeds, and woody plants.

#### **Use Precautions & Restrictions**



Always use the higher rate of this product within the specified range when vegetation is dense or more mature. Do not treat plants heavily covered with dust or under poor growing conditions such as drought stress, disease, or insect damage as reduced control may result. Rainfall within 6 hours after application may reduce effectiveness. Heavy rainfall within 2 hours of application may wash the product off of the foliage and a retreatment may be necessary. Reduced control may result when applications are made to any plant that has been mowed, grazed or cut, and has not been allowed to regrow to the specified stage for treatment.

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Apply to target species any time after full leaf expansion in the summer until the fall when target species begin to change color and drop their leaves.

The following mix rates for Glyphosate 5.4 and Activator 90 are within label guidelines and have proven effective.

#### Directed, Spot Treatment

#### 1 Gallon Spray Tank

- 1) Fill spray tank > ½ full of water
- 2) Amount of Glyphosate 5.4\*
  - a) 1-2 fl oz for annual or perennial weeds
  - b) 1.5-6 fl oz for woody plants
- 3) Add 1 oz Activator 90
- 4) Add remaining water to fill tank

#### **5 Gallon Spray Tank**

- 1) Fill spray tank > ½ full of water
- 2) Amount of Glyphosate 5.4\*
  - a) 5-10 fl oz for annual or perennial weeds
  - b) 7.5–30 fl oz for woody plants
- 3) Add 5 fl oz Activator 90
- 4) Add remaining water to fill tank

#### 25 Gallon Spray Tank

- 1) Fill spray tank > ½ full of water
- 2) Amount of Glyphosate 5.4\*
  - a) 25-50 fl oz for annual or perennial weeds
  - b) 32-96 fl oz for woody plants
- 3) Add 8 oz Activator 90
- 4) Add remaining water to fill tank







<sup>\*</sup>Applications should be made on a spray-to-wet basis. Spray coverage should be uniform and complete. Do not spray to the point of runoff.





## Panoramic 2SL Herbicide

**DIY Habitat Fact Sheet** 

## Panoramic 2SL herbicide: Imazapic



Provides control of many broadleaf weeds, annual and perennial grasses, and turf grass suppression. Panoramic 2SL may be used for weed control to release certain legumes, wildflowers, crown vetch, native prairie grass, wheatgrass, "wildtype" common Kentucky bluegrass, smooth bromegrass, bahiagrass, bermudagrass, and other grasses.

## **Activator 90 adjuvant: NIS**



The use of Activator 90 is required for all post emergence applications to optimize control. Activator 90 aids in adhesion and spreading of the spray droplets on the plant foliage as well as penetration of the herbicide through the leaf surface.

#### Suggested use sites



For use on non-crop and Conservation Reserve (CRP) land including pasture, rangeland, non-agricultural fence rows, and turf areas excluding residential sites.

## **Application Timing**



While applications may be applied pre-emergence or post-emergence, the best weed control is achieved when applied as a post-emergence application especially on perennial species. While Panoramic 2SL can be applied in the dormant or growing season, the target weeds need to be actively growing for maximum control.

#### **Use Precautions & Restrictions**



Do not apply directed to water. Soil moisture is critical for optimum weed control. Panoramic 2SL is rainfast within 1 hour after application. Panoramic 2SL can cause injury to desirable grasses if the application is made during periods of plant stress. Some yellowing of desirable grasses may occur after applications made during the growing season, but is dependent on weather conditions and is usually short-lived (2-4 weeks). Do not treat newly seeded or sprigged grass stands unless approved within the label. Do not apply to residential lawns or through any type of irrigation system.

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#### Stand Establishment



Since newly emerged grasses can be sensitive to Panoramic 2SL and/or the adjuvant used, best results in establishing mixed grass stands are attained when applications are made at planting before grass seedling emergence. If grasses have started to emerge, delay application until the grasses have reached the 5-leaf stage.

#### **Established Stands**



Application of Panoramic 2SL as an early postemergence treatment to annual grasses and broadleaf weeds will provide best results. Use lower rates on light weed infestations or when desirable wildflowers and legumes are mixed in the grass stands.

## **Revegetation with Prairegrasses and Other Forages**



Apply 2-12 fl oz Panoramic 2SL per acre in newly established and existing stands of prairie grasses. Some local ecotypes or varieties may be suppressed. Poor stands may also result from other factors such as poor soil, cool temperatures, poor seeding vigor, excessive moisture, or dry weather after emergence.

The following mix rates for Panoramic 2SL and Activator 90 are within label guidelines and have proven effective.

#### 1 Acre Broadcast\* Treatment

#### **Smaller Sprayers**

1) Fill spray tank > ½ full of water

5 Gallon Sprayer (treats approximately ¼ acre)

2) Add 2-12 fl oz Panoramic 2SL

1) Fill spray tank > ½ full of water
2) Add 0.4 -2.4 fl oz Panoramic 2SL

3) Add 8 oz Activator 90

3) Add 1.5 fl oz Activator 90

4) Add remaining water to fill tank

- 4) Add remaining water to fill tank
- \*Application volume should be a minimum of 20 gallons per acre.

For use with the following Food Plot Mixes:

Clover Kandy











## Pathfinder II Herbicide

**DIY Habitat Fact Sheet** 

## Pathfinder II herbicide: Triclopyr ester



A ready-to-use product designed to provide selective control of woody plant species including vines, shrubs, and small trees. Approved for use in both upland and seasonally dry wetland areas.

## Activator 90 adjuvant: NIS



Non-crop areas including fence rows, forests, wildlife management areas, pastures, commercial and residential landscapes, non-irrigation ditch banks, and around farm buildings. Uses on these sites may include application to grazed areas as well as establishment and maintenance of wildlife openings.

Pathfinder II does not have soil activity so it may be used under the canopy of desirable plant species. Once applied, Pathfinder II is absorbed through the bark and/or cambium layer and begins moving throughout the plant, stopping plant growth. Visible symptomology can vary depending on application method, plant species, and application timing. If applications are made to deciduous plants during the dormant season when the leaves are off, it will be spring before symptoms are visual. Applications made during the growing season can take several weeks to show symptomology.

## **Application timing**



Apply any time of year, including the winter months, except when snow, ice or water prevent spraying to the ground line. If the solution turns milky white, either the bark is too wet or there was water residue in the spray tank prior to fill-up and the results may be inconsistent.

## Restrictions



Do not mix Pathfinder II in water. Do not apply directly to water. Do not apply to foliage or stems of desirable plants. Any overspray onto desirable vegetation is likely to cause injury or mortality.

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## Low Volume Basal Bark Applications



May be used on any woody plant stem up to 4 inches in diameter with rough, thick bark or up to 6 inches on species with smooth bark. For multi-stemmed species be sure to treat each stem. Apply to the lower 12-15" of each individual stem treating the entire circumference of the stem but not to the point of run-off as shown in Figure 1.

Ensure spray tank is empty and clean. Add desired about of Pathfinder II. Apply as needed.



Figure 1

## **Cut Stump Treatments**



Reduces or eliminates re-sprouting of woody plants after hand-cutting to reduce future maintenance. Apply to the cambium layer as well as any remaining bark or exposed roots but not to the point of run-off as indicated in Figure 2.

Ensure spray tank is empty and clean. Add desired about of Pathfinder II. Apply as needed

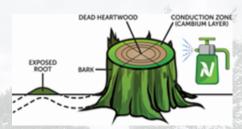


Figure 2











## Sonora Herbicide

## **DIY Habitat Fact Sheet**

## Sonora herbicide: Clopyralid



Provides control of annual and perennial broadleaf weeds including many thistle species and certain woody plants. Sonora can affect susceptible broadleaf plants directly through foliage and indirectly by root uptake from treated soil. Symptomology from foliar applications can generally be observed within 7 to 14 days on susceptible broadleaf weed species depending on environmental conditions and can take longer on woody plants.

## **Activator 90 adjuvant: NIS**



The addition of Activator 90 is highly recommended and will improve control of the target plant species. Activator 90 aids in adhesion and spreading of the spray droplets to the plant foliage as well as penetration of the herbicide through the leaf surface.

## **Application timing**



Apply as a post-emergent treatment to actively growing broadleaf and woody plants. Extreme growing conditions such as drought or near freezing temperatures, prior to, at, or following application may reduce weed control. Wet foliage at the time of application may decrease control. Applications of Sonora are rainfast within 2 hours after application.

#### **Precautions & Restrictions**



Do not apply directly to water. Applications made to newly seeded grasses may be injured until well established. Applications adjacent to or in a treated area with desirable roses and leguminous trees such as locusts, redbud, mimosa, and caragana may be affected by root uptake. Do not apply Sonora to any broadleaf crop or ornamental planting or to areas where sensitive plants will be planted during the same growing season.

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## Suggested uses sites



Rangeland, permanent grass pastures, Conservation Reserve Program (CRP), forests, non-crop areas such as non-irrigation ditch banks, unimproved rough turf grasses, residential areas, natural areas, wildlife openings, wildlife habitat management areas including grazed areas on these sites.

#### **Treatment**



The following mix rates for Sonora and Activator 90 are within label guidelines and have proven effective.

Fluid Ounces per 2,000 sq ft 0.5 fl oz 0.75 fl oz 1 fl oz Equivalent Ounces/Acre 10.5 oz 16 oz 21 oz

Amount of Activator 90 to treat an area of 2,000 sq ft

Fluid Ounces per 2,000 sq ft 3.5 fl oz Equivalent Ounces/Acre 8 fl oz

#### **Directed, Spot Treatments**

Product Spray Tank Size

25 Gallon5 Gallon1 GallonWaterFill tank ¾ fullFill tank ¾ fullFill tank ¾ fullSonora21 fl oz2.5 fl oz0.5 fl ozActivator 908 fl oz1.75 fl oz0.5 fl oz

Water Add remaining water Add remaining water Add remaining water

For use with the following Food Plot Mixes:

**Blizzard Buster** 

**Covey Rise** 

Early Longtail Milo

Winter Shield

Winter Wonderland

Whitetail Sanctuary











## StreliuS II Herbicide

**DIY Habitat Fact Sheet** 

#### StreliuS II herbicide: S-Metalochlor



Provides selective postemergence control of annual and perennial grasses within certain broadleaf crops such as alfalfa, clover, and brassica species. Only susceptible plants emerged at the time of application will be controlled. Symptomology is typically observed within 7 to 14 days depending on grass species treated and environmental conditions. When applied at the appropriate rate and timing, Ceridian 2EC will provide effective control of susceptible annual and perennial grass species.

## **Application procedures**



Apply as a preemergence treatment only. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, otherwise weed control will be diminished.

#### **Restrictions & Use Precautions**



Dry weather following preemergence application may reduce the effectiveness. If sorghum seed is not properly treated with Concep seed treatment, preplant and preemergence applications of StreliuS II will severely injure the crop. Under high soil moisture conditions prior to sorghum emergence, injury may occur following preplant and preemergence application of StreliuS II. The crop will normally outgrow this effect. Do not use StreliuS II on sorghum grown under dry mulch tillage, or injury may occur.

#### Restrictions



Do not apply if rain is expected within 1 hour of application as control may be unsatisfactory. Do not apply a postemergence broadleaf herbicide within one day following application of Ceridian 2EC. Cultivation of treated grasses 7 days prior to or within 7 days after application may reduce level of weed control.

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The following mix rates for Ceridian 2EC and Activator 90 are within label guidelines and have proven effective.

#### 1 acre treatment:

Water: 15+ gallons (use higher volumes of water with heavy grass pressure or when grasses are at or near

maximum height)

Ceridian 2EC: 8 - 16 fl oz<sup>1</sup> Activator 90: 8 fl oz

<sup>1</sup> Use 8 fluid ounces for Brassica leafy greens such as collards, mustards, rape; chicory, radish, root vegetables such as turnip, pea species, legume vegetables, and cow peas. Use 16 fluid ounces for alfalfa, clover, and soybeans.

Smaller sprayers: 5 gallons (treats ¼ acre) 1 gallon

Water:5 gallons1 gallonCeridian 2EC:2.5 - 5 fl oz²0.5 - 1 fl oz³Activator 90:2.75 fl oz0.75 fl oz

<sup>2</sup> Use 2.5 fl oz for Brassica leafy greens such as collards, mustards, rape; chicory, radish, root vegetables such as turnip, pea species, legume vegetables, and cow peas. Use 5 fl oz for alfalfa, clover, and soybeans.

<sup>3</sup> Use 0.5 fl oz for Brassicas leafy greens such as collards, mustards, rape; chicory, radish, root vegetables such as turnip, pea species, legume vegetables, and cow peas. Use 1 fl oz for alfalfa, clover, and soybeans.

For use with the following Food Plot Mixes:

Clover Kandy

**Dove Kandy** 

C Turkey

Lucky 13

Fatal Fall Forage

Big Buck Brassica











# **Tryclopyr 3 Herbicide**

**DIY Habitat Fact Sheet** 

## **Tryclopyr 3 herbicide: Triclopyr**



Provides selective control of many annual and perennial broadleaf weeds, vines, and woody plant species without harming most grasses excluding residential turf grasses. Approved for use in both upland, wetland, and certain aquatic sites. Only plants emerged at the time of application will be controlled. Susceptible plants that emerge after the application will not be controlled.

## **Activator 90 adjuvant: NIS**



The addition of Activator 90 is highly recommended and will improve control of the target plant species. Activator 90 aids in adhesion and spreading of the spray droplets to the plant foliage as well as penetration of the herbicide through the leaf surface.

## **Application timing**



Apply to target species any time after full leaf expansion until the fall when target species begin to change color and drop their leaves.

Target plant species should be actively growing at the time of herbicide application. Do not mow 7-10 days prior to application or 10-14 days after application for broadleaf weeds or within 4 weeks after application for woody plants.

#### **Precautions & Restrictions**



Applicators and other handlers must wear protective eyewear, waterproof gloves, long sleeved shirt and pants, shoes, and socks. When making applications to banks or shorelines of moving water sites minimize overspray into the open water. Do not apply to ditches or canals used to transport irrigation water. Do not apply directly to un-impounded rivers or streams or to saltwater bays or estuaries.

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The following mix rates for Triclopyr 3 and Activator 90 are within label guidelines and have proven effective.

#### 25 Gallon Spray Tank

- 1) Fill spray tank > ½ full of water
- - a) 8 fl oz for broadleaf weeds
  - b) 32 fl oz for woody plants
- 3) Add 8 oz Activator 90
- 4) Add remaining water to fill tank

#### Directed, Spot Treatment

## **5 Gallon Spray Tank**

- 1) Fill spray tank > ½ full of water
- 2) Add desired amount of Triclopyr 3\* 2) Add the desired amount of Triclopyr 3\*
  - a) 4 fl oz for broadleaf weeds
  - b) 16 fl oz for woody plants
  - 3) Add 4 fl oz Activator 90
  - 4) Add remaining water to fill tank

#### 1 Gallon Spray Tank

- 1) Fill spray tank > ½ full of water
- 2) Add the desired amount of Triclopyr 3\*:
  - a) 1 fl oz for broadleaf weeds
  - b) 3.5 fl oz for woody plants
- 3) Add 1 oz Activator 90
- 4) Add remaining water to fill tank
- \*Applications should be made on a spray-to-wet basis. Coverage should be uniform and complete, but not to the point of runoff.

For use with the following Food Plot Mixes:

Blizzard Buster

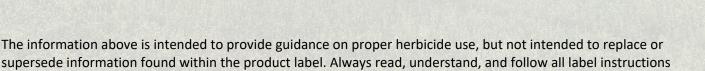
Covey Rise

Early Longtail Milo

Winter Shield

Winter Wonderland

Whitetail Sanctuary





when using herbicides.



