


71368-88

4/1/2009

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 <p style="text-align: center;">U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave., NW Washington, D.C. 20460</p>	EPA Reg. Number: 71368-88	Date of Issuance: 1 APR 2009
	Term of Issuance: Conditional	
	Name of Pesticide Product: TruSlate Pro Herbicide	
<p>NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration (under FIFRA, as amended)</p>		
Name and Address of Registrant (include ZIP Code): Nufarm, Inc. 150 Harvester Drive Suite 200 Burr Ridge, IL 60527		
<p>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.</p> <p>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.</p> <p>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> 1) Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data. 2) Add the phrase "EPA Reg. No. 71368-88" to the labeling. Assure that the EPA Establishment Number and Net Contents are also on the label. 3) Delete "Wear goggles, face shield, or safety glasses." From the third sentence on page 2 under Hazards to Humans and Domestic Animals. The text should read "Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using the toilet. Remove and wash contaminated clothing before reuse." 4) Per the RED, add "aquatic invertebrates and aquatic plants." to the first sentence in the Environmental Hazards statement beginning on page 2. The text should read "This product is toxic to fish, aquatic invertebrates and aquatic plants." 5) Change "Do not give any liquid to the person." in the First Aid box on page 2 to "Have person sip a glass of water if able to swallow." <p>SEE NEXT PAGE FOR ADDITIONAL COMMENTS</p>		
Signature of Approving Official: Joanne I. Miller Product Manager 23 Herbicide Branch Registration Division (7505P)	Date: 1 APR 2009	

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6) The Personal Protective Equipment (PPE) section on page 2 of the label should be changed to comply with the RED and the acute toxicity review. The text should read:

“PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are” *(the registrant inserts the names of the correct chemical-resistant material(s) here)*. “If you want more options, follow the instructions for category” *[the registrant inserts A,B,C,D,E,F,G, or H here]* 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 and socks, plus
- chemical-resistant gloves when mixing, loading, or using any hand-held equipment.
- protective eyewear (goggles, face shield, or safety glasses)

See engineering controls for additional requirements.”

7) Per PR Notice 2007-4, please revise the pressure rinsing language in the Storage and Disposal section on page 12 for nonrefillable containers larger than 5 gallons to read: 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.”

8) Per the Label Review Manual, the Note to Physician on the in the First Aid box on page 2 should be changed to: “NOTE TO PHYSICIAN: May pose aspiration pneumonia hazard. Contains petroleum distillate.”

9) Change the header “PRECAUTIONS FOR AVOIDING SPRAY DRIFT” to “SPRAY DRIFT MANAGEMENT” on page 4. Delete the “Spray Drift Management” header from page 5.

10) Per the RED, add “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” to the SPRAY DRIFT MANAGEMENT section of the label deleting any conflicting label language.

11) Per the RED, add the following text to the product label: “Apply only when the wind speed is 2-10 mph at the application site” to the SPRAY DRIFT MANAGEMENT section of the label. Currently, this requirement is only referenced under aerial application on page 4, though it also applies to other methods of pesticide application.

12) Note: As appropriate, add “inversion” to the second sentence to read “A temperature **inversion** is characterized by little or no wind and lower air temperature near the ground than at higher levels.” at the top of page 5.

13) Per the RED, change “The distance of the outer most nozzles on the boom must not exceed 75% the length of the wingspan of 90% of rotor width.” on page 5 to read “The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.”

14) Per the RED, change the first sentence under Application on page 5 to read "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."

15) Per the RED, add the following additional requirement for ground boom application to the product label: "Do not apply with a nozzle height greater than 4 feet above the crop canopy."

16) Submit a one-year Storage Stability & Corrosion Characteristics study. Observations should be made at 0, 3, 6, 9, and 12 month intervals. The results should be submitted electronically along with a hard copy.

17) Assure that the required acid equivalents per acre (lbs ae/A) restrictions are expressed as a product volume or product weight per unit area that are in the same units as the registered application rate already on the label. Assure that the revised maximum application restrictions do not exceed the highest currently registered rate for each appropriate application site. Finally, ensure that the most restrictive of the required limitations for the active ingredients in this product are placed on the labeling.

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

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TruSlate™ Pro Herbicide

Annual and perennial broadleaf postemergence control in barley, oats and wheat
not underseeded with a legume

ACTIVE INGREDIENTS:

MCPA-EHE: 2-methyl-4-chlorophenoxyacetic acid, 2-ethylhexyl ester*	30.73%
Fluroxypyr 1-methylheptyl ester: ((4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy)acetic acid, 1-methylheptyl ester**	10.37%
Clopyralid: 3,6-dichloro-2-pyridinecarboxylic acid***	5.60%
OTHER INGREDIENTS:	53.30%
TOTAL:	100.00%

Contains petroleum distillates

Equivalent to:

* MCPA Acid	19.7%, 1.75 lb/gal
** Fluroxypyr Acid	7.2%, 0.64 lb/gal
*** Clopyralid Acid	5.6%, 0.50 lb/gal

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.)

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300
For Medical Emergencies Only, Call (877) 325-1840

EPA REG. NO. 71368-
EPA EST. NO.

MANUFACTURED FOR:
NUFARM, INC.
150 HARVESTER DRIVE
BURR RIDGE, IL 60527



ACCEPTED
with COMMENTS
in EPA Letter Dated

NET CONTENTS:

1 APR 2009

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

071368-00000.20080918.EPA.NEW
NUP-08035

71368-88

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING - AVISO**

Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes or on clothing. Wear goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category B 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 and socks, plus
- chemical-resistant gloves
- protective eyewear

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 Control Statement:

When handlers use closed systems, enclosed cabs, or aircraft 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 may be reduced or modified as specified in the WPS. Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)].

USER SAFETY RECOMMENDATIONS	
Users Should:	
<ul style="list-style-type: none"> • 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. If pesticide gets on skin, wash immediately with soap and water. • 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 IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 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.
IF SWALLOWED	<ul style="list-style-type: none"> • 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.
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 1-877-325-1840 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
Contains petroleum distillate – vomiting may cause aspiration pneumonia.	

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment

or disposing of equipment washwaters. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

MCPA 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.

Clopyralid is a chemical which can travel (seep or leach) through soil and under certain conditions contaminate groundwater which may be used for irrigation or drinking purposes. Users are advised not to apply clopyralid where soils have a rapid to very rapid permeability throughout the profile (such as loamy sand to sand) and the water table of an underlying aquifer is shallow, or to soils containing sinkholes over limestone bedrock, severely fractured surfaces, and substrates which would allow direct introduction into an aquifer. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is coveralls, chemical-resistant gloves made of any waterproof material, shoes plus socks, and protective eyewear.

USE PRECAUTIONS

- **Use Restrictions in the State of New York:** This product may not be sold or used in Suffolk and Nassau counties in the state of New York and can be used in other counties only for postemergence application with a maximum application rate of 15.9 fluid ounces (0.062 pound of clopyralid) per acre per year (with no other product containing clopyralid being applied pre-plant or post-plant within the same year).
- When applying this product, do not contaminate water used for domestic purposes or irrigation ditches.
- Do NOT apply this product through any type of irrigation system (i.e., chemigation).
- Do NOT apply this product to wheat, barley, or oat that has been underseeded with a legume.
- Do NOT allow spray drift to come in contact with or apply this product directly to susceptible broadleaf plants or broadleaf crops, including but not limited to the following: alfalfa, beans, canola, cotton, flowers, grapes, lentils, lettuce, mustard, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tobacco, tomatoes, vegetables, or other desirable broadleaf crops or ornamental plants or soil where sensitive crops will be planted the same season (refer to the Crop Rotation Intervals section for more information).

- Avoid application where proximity of susceptible crops or other desirable plants is likely to result in exposure to spray or spray drift.
- Sensitive broadleaf plants may be injured if livestock are transferred within less than 7 days of grazing untreated pasture or eating untreated hay because of potential clopyralid in their urine and manure. Transfer livestock from treated grazing areas (or feeding of treated hay) to sensitive broadleaf crop areas only after 7 days of grazing on an untreated pasture (or feeding of treated hay).
- Do NOT apply more than 0.25 lb ae/A of fluroxypyr containing products per growing season.
- Do NOT apply more than 0.12 lb/A of clopyralid containing products per growing season.
- Do NOT apply more than 0.75 lb ae/A of MCPA containing products per growing season.

Residues in Plants and Manure

Fields that may be planted with susceptible plants the following season must not be composted or mulched with plant residues from, or manure of animals grazed on, treated areas (e.g., hay or straw from treated areas, or manure or bedding straw from animals that have grazed or consumed forage from treated areas).

Herbicidal decomposition can be enhanced by burning or evenly incorporating plant residues. Clopyralid decomposition in crop residues or manure occurs more rapidly in warm, moist soil conditions and may be enhanced with supplemental irrigation.

Avoid Movement of Treated Soil

While serious injury is unlikely, wind-blown dust containing clopyralid may produce visible symptoms such as epinasty (downward curving or twisting of leaf petioles or stems) when deposited on susceptible plants. Avoiding treatment of powdery dry or light sandy soils until soil has been settled by rainfall or irrigation or by irrigating shortly after application will help to minimize the potential movement of clopyralid on wind-blown dust.

PRECAUTIONS FOR AVOIDING SPRAY DRIFT

Spray drift, even very small quantities of the spray that may not be visible, may severely injure susceptible crops whether dormant or actively growing. When applying this product, 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 this product in a total spray volume of 8 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. Only apply spot treatments 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

To minimize spray drift, apply this product in a total spray volume of 3 or more gallons per acre. 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. Avoid application 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 or wing span or 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.

Spray Drift Management

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed 75% the length of the wingspan or 90% of rotor width.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they must be observed.

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversion section of this label).

Controlling Droplet Size

Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of nozzles - Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation - Orienting nozzles so that the spray is released backwards, parallel to the airstream will produce larger droplets than other orientations. Significant deflection from the horizontal will reduce droplet size and increase drift potential.

Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types.

Boom Length: For some use patterns, reducing the effective boom length to less than 75% of the wingspan or 90% of rotor width may further reduce drift without reducing swath width.

Application: Do not make applications at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lower height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment – When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Increase swath adjustment distance with the increasing drift potential (higher wind, smaller drops, etc.).

Wind: 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. Avoid application when winds are below 2 mph due to variable wind direction and high inversion potential. Note: Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect drift.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions: Do not make applications during a temperature inversion, because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small-suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. A temperature inversion is characterized by increasing temperature with altitude and commonly develops at night when there is limited cloud cover and calm conditions. They begin to form as the sun sets and often continue into the morning. Presence of a temperature inversion is indicated by ground fog; however, if ground fog is not present, a temperature inversion can also be indicated by movement of smoke from a ground or an aircraft smoke generator. Smoke that forms a layer and moves laterally in a connected cloud (under low wind conditions) is an indication of inversion conditions, while smoke that moves upward and dissipates rapidly is an indication of good vertical air mixing.

Sensitive Areas: Only apply the pesticide when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

INFORMATION

NOTE: Use directions in Nufarm, Inc. supplemental labeling for this product may supersede directions or limitations in this labeling.

Apply this product for postemergence control of annual and perennial broadleaf weeds in wheat, barley and oats not underseeded with a legume.

Crop Rotation Intervals

Because residues of this product in treated plant tissues (including the treated crop or weeds) can impact crops planted after treatment, be sure to refer to the following crop rotation tables before rotating to susceptible crops.

Note: The intervals listed below are based on average annual precipitation *regardless of irrigation practices*. Rotational crops should be grown safely if the recommended crop rotation intervals listed below are observed. It is important to realize, however, that accurate prediction of rotated crop safety is not possible because this product dissipates in the soil by microbial activity and the rate of microbial activity is dependent on several interrelating factors including soil moisture, temperature and organic matter. Prior to planting sensitive crops in areas of low organic matter (e.g., less than 2.0%) and less than 15 inches average annual precipitation, the potential for crop injury may be reduced by removing or burning treated plant residues, supplemental fall irrigation and deep moldboard plowing.

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ALL STATES EXCEPT CALIFORNIA, IDAHO, NEVADA, OREGON, UTAH AND WASHINGTON		
Rotation Crops ¹	Rotation Interval	
	More than 15 inches of rainfall during the 12 months following application AND Soils greater than 2% organic matter	Less than 15 inches of rainfall during the 12 months following application AND Soils less than 2% organic matter
Broadleaf Crops grown for seed (excluding <i>Brassica</i> species), Lentils, Peas, Potatoes (including potatoes grown for seed)	18 months ²	18 months ^{2,3}
Dry beans, Soybeans, Sunflower	10.5 months	18 months ²
Alfalfa, Asparagus, Grain Sorghum, Mint, Onions, Safflower, Strawberries	10.5 months	10.5 months
Canola (Rapeseed), Cole Crops (<i>Brassica</i> species), Flax, Garden Beet, Popcorn, Spinach, Sugarbeet, Turnip	120 days	120 days
Barley, Grasses, Field Corn, Oats, Sweet Corn, Wheat	No Interval Required	No Interval Required

- 1) Following application of this product, do not rotate to unlisted crops with less than a 10.5 month rotation interval. Prior to planting any broadleaf crops that are not listed above, perform a field bioassay (refer to the bioassay instructions below).
- 2) Due to the potential for crop injury, 18 month rotation intervals are recommended. Note: For these crops, a minimum 10.5 month rotation interval must be observed to avoid illegal residues in the harvested crop.
- 3) Because these are sensitive crops, a field bioassay is recommended prior to planting (refer to the bioassay instructions below).

CALIFORNIA, IDAHO, NEVADA, OREGON, UTAH AND WASHINGTON ONLY		
Rotation Crops ¹	Rotation Interval	
	More than 18 inches of rainfall during the 12 months following application NOT including irrigation	Less than 18 inches of rainfall during the 12 months following application NOT including irrigation
Broadleaf Crops grown for seed (excluding <i>Brassica</i> species), Carrots ² , Celery ² , Cotton ² , Lentils, Lettuce ² , Melons ² , Peas, Potatoes (including potatoes grown for seed), Safflower, Tomatoes ²	18 months ²	18 months ^{2,3}
Alfalfa, Dry Beans, Soybean, Sunflower	12 months	18 months ^{2,3}
Asparagus, Grain Sorghum, Mint, Onions, Strawberries	12 months	12 months
Canola (Rapeseed), Cole Crops (including <i>Brassica</i> spp. grown for seed), Flax, Garden Beet, Popcorn, Spinach, Sugarbeet, Turnip	120 days	120 days
Barley, Grasses, Field Corn, Oats, Sweet Corn, Wheat	No Interval Required	No Interval Required

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- 1) Following application of this product, do not rotate to unlisted crops with less than a 12 month rotation interval. Prior to planting any broadleaf crops that are not listed above, perform a field bioassay (refer to the bioassay instructions below).
- 2) Due to the potential for crop injury, 18-month rotation intervals are recommended. *Note: For these crops, a minimum 12 month rotation interval must be observed to avoid illegal residues in the harvested crop.*
- 3) Crop injury and / or yield loss may occur up to 4 years after application. Because these are sensitive crops, a field bioassay is recommended prior to planting (refer to the bioassay instructions below).

Instructions for Field Bioassays

In fields previously treated with this product, crop sensitivity can be confirmed by conducting a field bioassay using the following instructions:

- 1) Any time between harvest of the treated crop and the planting of the intended rotational crop, plant short test rows of the intended rotational crop so as to sample variability in field conditions such as soil texture, soil organic matter, soil pH, and / or drainage.
- 2) Observe the test crop for herbicidal activity, such as poor stand (effect on seed germination), chlorosis (yellowing), necrosis (dead leaves or shoots) or stunting (reduced growth).

The test crop can be grown only if herbicidal symptoms are not observed.

If there is apparent herbicidal activity, do not plant the field to the test rotational crop. Only a labeled crop for which the rotational interval has clearly been met can be planted.

Sprayer Clean-Out

To avoid injury to desirable plants, before applying other chemicals with the equipment used to apply this product, all equipment must be thoroughly cleaned.

1. After applying this product, flush and rinse application equipment with water thoroughly at least 3 times. Rinse water may be disposed of by application to treatment areas or in non-cropland areas away from water supplies.
2. For the second rinse, add 1 quart of household ammonia for every 25 gallons of water. Circulate the solution through the entire system so that all internal surfaces are exposed to the ammonia water solution (15 to 20 minutes). Let the solution stand in the equipment for several hours (preferably overnight).
3. Flush the solution out of the spray tank through the boom.
4. Rinse the system twice with clean water, recirculating and draining each time.
5. Remove and clean separately all nozzles and screens.

MIXING INSTRUCTIONS

Note: When adding ingredients to the mixture, allow time for each ingredient to be thoroughly mixed before adding the next. Be sure to agitate spray mixture before use if allowed to stand after mixing.

1. Fill spray tank with water equal to 1/2 to 3/4 of the required spray volume and start agitation.
2. Add the recommended amount of this product.
3. Add any surfactants, adjuvants or drift control agents according to the respective manufacturer's instructions.
4. Agitate during final filling of the spray tank with water and maintain sufficient agitation during application to ensure uniformity of the spray mixture.

Tank Mixing

This product may be tank mixed with labeled rates of other products provided the tank mix partner products are labeled for the timing and method of application for the use site to be treated and tank mixing with products containing fluroxypyr or clopyralid is not prohibited by the label(s) of the tank mix partner products.

Tank Mixing Precautions

- Be sure to follow all applicable use directions, precautions, and limitations on the respective product labels.
- *Do not exceed recommended application rates.* Do not tank mix with other pesticide products that contain the same active ingredient as this product unless the label of either mix partner specifies the maximum dosages that may be applied.
- For 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 has been adequately cleaned (refer to the Sprayer Clean-Out section above).
- Prior to final use, perform a (jar) test to verify the compatibility of tank mix partner products (see instructions below).

Tank Mix Compatibility Testing (Jar Test)

The following jar test is recommended prior to tank mixing to ensure the compatibility of this product with other tank mix partner products:

- 1) Mix the desired tank mix ingredients in their relative proportions in a clear glass quart jar with lid.
- 2) Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour.
- 3) If the mixture balls-up, forms flakes, sludges, gels, oily films or layers, or other precipitates, it is not compatible and the tank mix combinations must not be used.

Tank Mixing Instructions

- 1) Fill spray tank with water to 1/2 to 3/4 of the required spray volume.
- 2) Start agitation and maintain agitation continuously during mixing, final filling and while applying.
- 3) Add different formulation types in the following order being sure to allow sufficient time for each product to completely mix and dispersion after addition (Note: This product is an emulsifiable concentrate (EC) formulation):
 - a) Dry flowables
 - b) Wettable powders
 - c) Aqueous suspensions
 - d) Flowables or liquids
- 4) Maintain agitation and fill spray tank to 3/4 of total spray volume and then add this product and other emulsifiable concentrates and any solutions.
- 5) Finish filling the spray tank.
- 6) While spraying, the tank mix ingredients may settle out of suspension if agitation is stopped before the spray tank is empty. The settled materials must be resuspended before any spraying is resumed and a sparger agitator works particularly well in this situation. Settled material may be more difficult to resuspend than when originally mixed.

APPLICATION INFORMATION

Broadleaf Weeds Controlled or Suppressed		
Alfalfa, volunteer (from seed)	Hawkweed, yellow	Puncturevine
Alfalfa, volunteer (perennial plants) [†]	Hemp dogbane	Purslane, common
Artichoke, Jerusalem ¹	Horseweed (marestail), field	Ragweed, common ¹
Beans, volunteer	Horsetail [†]	Ragweed, giant ¹
Bedstraw (cleavers) ²	Jimsonweed ¹	Salsify, meadow (goatsbeard)
Bindweed, field [†]	Knotweed [†]	Shepherdspurse
Buckwheat, wild ³	Kochia ⁴	Smartweed, green ⁵
Buffalobur	Ladysthumb	Smartweed, Pennsylvania ⁵
Canola, volunteer	Lambsquarters, common	Sowthistle, annual
Chamomile, false (scentless)	Lentils, volunteer	Sowthistle, perennial ^{6†}
	Lettuce, prickly	Starthistle, yellow

Broadleaf Weeds Controlled or Suppressed		
Chamomile, mayweed (dogfennel)	Mallow, common	Sunflower ¹
Chickweed	Mallow, Venice	Tansymustard, pinnate
Clover, black medic	Marshelder ¹	Teasel, common
Clover, hop	Morning glory	Thistle, bull
Clover, red	Mustard, tumble (Jim Hill)	Thistle, Canada ⁶
Clover, sweet	Mustard, wild	Thistle, musk
Clover, white	Nightshade, black ⁵	Thistle, Russian
Cocklebur, common ¹	Nightshade, cutleaf ⁵	Velvetleaf
Cornflower (bachelor button)	Nightshade, Eastern black ⁵	Vetch
Dandelion	Nightshade, hairy ⁵	Wormwood, biennial
Dock, curly	Peas, volunteer	
Flax, volunteer	Pennycress, field	
Flixweed	Pigweed, redroot	
Hawksbeard, narrowleaf	Pineappleweed	
Hawkweed, orange	Potato, volunteer [†]	

[†] **Indicates Suppression Only** - Suppression is a reduction in weed competition (reduction is 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.

- 1) Apply up to 5 leaf stage of growth for best results.
- 2) Apply in the 1 to 4 whorl stage of growth for best results.
- 3) Apply in the 1 to 4 leaf stage of growth (before vining) for best results.
- 4) Includes herbicide resistant or tolerant biotypes. Apply when weeds are 1 to 4 inches tall for best results.
- 5) Apply at the 2 to 4 leaf stage of growth for best control or suppression.
- 6) Apply from rosette to bud (pre-flower) stage of growth for best control or suppression.

Perennial Weeds

This product controls initial top growth and inhibits regrowth during the season it is applied. It may also reduce shoot regrowth in the season following application when used at the higher rates listed in this label; however, due to variability of shoot regrowth from perennial root systems, plant response may be inconsistent.

Management of Kochia Biotypes

Research indicates many biotypes of kochia may occur within a single field and while kochia biotypes can vary in their susceptibility to this product, in general all biotypes less than 4 inches in height will be suppressed or controlled with 1 to 1.5 pints per acre of this product. A shift to more tolerant biotypes within a field may occur if this product is applied at rates lower than recommended.

Best Practices for Resistance Management

Extensive populations of dicamba-tolerant kochia have been identified in certain small grain and corn production regions (such as Chouteau, Fergus, Liberty, Toole, and Treasure counties in the state of Montana). For optimal control of dicamba-tolerant kochia in these counties, apply this product at the rate of 1.5 to 2 pints per acre. For improved control of dicamba-tolerant kochia, this product may be tank mixed with a reduced rate of Comet Herbicide (refer to the section "For Improved Control of Dicamba-Tolerant Kochia" on this label).

To minimize selection pressure and preserve the utility of this product for control of dicamba-tolerant kochia biotypes, rotate this product with products that do not contain dicamba.

Application Timing

Only weeds that have emerged at the time of application will be controlled so be sure to apply to actively growing weeds. Weed control may be reduced and the risk of crop injury (at all stages of growth) may increase if extreme growing conditions (such as drought or near-freezing temperatures) occur prior to, at,

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or following application. Control may be decreased if target plant foliage is wet at the time application. Applications of this product are rainfast within 6 hours after application.

Effect of Temperature on Herbicidal Activity

The herbicidal activity of this product is influenced by weather conditions optimum herbicidal activity between 55°F to 75°F and reduced efficacy occurring when temperatures are below 45°F or above 85°F. Weed control and crop tolerance may be reduced if frost occurs before or shortly after application (3 days).

Spray Coverage

Use sufficient spray volume to provide thorough coverage and a uniform spray pattern. For best results (and to minimize spray drift), apply in a spray volume of 10 gallons or more per acre and do not broadcast apply in less than 3 gallons of total spray volume per acre. Increase spray volume as weed density and vegetative canopy increase in order to obtain equivalent weed control.

Use only nozzle types and spray equipment designed for herbicide application. To reduce spray drift, be sure to follow the precautions under the heading Avoiding Injury to Non-Target Plants.

Adjuvants

To achieve satisfactory weed control, this product does not usually require the use of an adjuvant. An adjuvant may, however, optimize herbicidal activity when applications are made at lower use rates, lower carrier volumes, under conditions of cool temperature, low relative humidity or drought, or to small, heavily pubescent kochia.

Use with Sprayable Liquid Fertilizer Solutions

This product is compatible with most non-pressurized liquid fertilizer solutions. However, prior to mixing, perform a compatibility test (jar test), especially when a new batch of fertilizer or pesticides is used, when the water source changes, or when tank mixture ingredients or concentrations are changed. Refer to the Tank Mix Compatibility Testing section above for specific instructions.

When mixing with a sprayable liquid fertilizer, using a compatibility aid such as Unite or Compex may help obtain and maintain a uniform spray solution during mixing and application. For best results, do not exceed 50% liquid fertilizer of the total spray volume. Premix this product with water and add to the liquid fertilizer/water mixture while agitating contents of the spray tank. To compare with jar test agitation, the agitation in the spray tank must be vigorous. Apply the spray the same day it is prepared being sure to maintain continuous agitation.

NOTE: Leaf-burn or yellowing of crop foliage may occur when foliar-applied liquid fertilizers are used as a carrier.

WHEAT (INCLUDING DURUM), BARLEY, OATS

Application Restrictions

- Do NOT apply if the cereal crop is underseeded with a legume.
- Do not allow livestock to graze treated areas or harvest treated forage with 7 days of application.
- Do NOT apply more than 0.25 lb ae/A of fluroxypyr containing products per growing season.
- Do NOT apply more than 0.12 lb/A of clopyralid containing products per growing season.
- Do NOT apply more than 0.75 lb ae/A of MCPA containing products per growing season.
- **Preharvest Interval:** Do not apply closer than 14 days before cutting of hay or 40 days before harvesting of grain and straw.

Application Timing

To control listed broadleaf weeds, apply as a postemergence broadcast treatment to actively growing wheat, barley or oats from the 3 leaf stage up to and including flag leaf emergence (Zadoks scale 39). Because only weeds that have emerged at the time application will be controlled, be sure to apply when weeds are actively growing but before weeds are 4 inches tall or vining. Consult the Broadleaf Weeds Controlled or Suppressed section for additional information on weed sizes.

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For perennial weeds (such as Canada thistle), apply when the majority of the basal leaves have emerged from the soil up to bud stage to obtain season-long control.

To suppress volunteer potatoes, apply before potato plants are 4 inches tall.

Broadcast Application Rates

For young, succulent growth of susceptible weed species less than 4 inches tall, apply 1 to 1.5 pints of this product per acre. Best control of kochia is achieved when kochia is at least 1 inch tall and not taller than 4 inches. For dicamba resistant kochia and volunteer potatoes use 1.5 to 2 pints per acre. Tank mixes with additional herbicides may be necessary when controlling less sensitive species, some 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).

For Improved Control of Dicamba-Tolerant Kochia

Mix 2.7 fluid ounces of Comet Herbicide per acre with the recommended amount of this product.

Tank Mixtures for Wheat (including Durum), Barley, Oats

This product may be applied in tank mix combination with labeled rates of other products registered for postemergence application in wheat, barley, and oats. Be sure that you do not exceed recommended application rates and use only in accordance with the most restrictive precautions and limitations on the respective product labels when tank mixing. Refer to the Tank Mixing Precautions section under Mixing Instructions for additional information.

STORAGE AND DISPOSAL

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

PESTICIDE 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:

[Nonrefillable Containers 5 Gallons or Less:] Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank 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. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

[Nonrefillable Containers larger than 5 Gallons:] Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. 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. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **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 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.

[Refillable container larger than 5 gallons:] Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal

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is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

WARRANTY DISCLAIMER

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