2026-2813
2026-07-31

(Container)

GROUP	4	HERBICIDE

Rainbow Fluroxypyr 333 EC

HERBICIDE

Emulsifiable concentrate

COMMERCIAL (AGRICULTURAL)

Rainbow Fluroxypyr 333 EC is a selective herbicide for post-emergent control of annual broadleaved weeds including cleavers and certain ALS-resistant broadleaved weeds such as kochia in spring wheat, durum wheat, winter wheat, spring barley, oats, rangeland, permanent pasture, rights-of-way, industrial and other non-crop areas of Canada. Rainbow Fluroxypyr 333 EC will also suppress hemp-nettle, common chickweed and wild buckwheat.

ACTIVE INGREDIENT: fluroxypyr, present as 1-methylheptyl ester 333 g/L

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

WARNING
EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER

REGISTRATION NO. 36070 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1 L - bulk

For Chemical Emergency: Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC 1-800-424-9300.

Rainbow CropSciences Inc.
535 E Plainfield Road, Suite E
Willowbrook, IL 60527
(630) 828-5088

PRECAUTIONS
KEEP OUT OF REACH OF CHILDREN
Causes eye irritation. DO NOT get in eyes. May irritate the skin. Avoid contact with skin. Potential skin sensitizer.

DO NOT eat, drink or smoke/vape while using this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum/tobacco, smoking/vaping, using the toilet or handling mobile devices. Aircraft cockpit and vehicle cabs MUST be decontaminated regularly.

For agricultural/crop scenarios: DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

For non-crop areas: DO NOT enter or allow worker entry into treated areas until sprays have dried.

DO NOT use in residential areas. Residential areas are defined as any use site where bystanders or the public, including children, could be exposed during or after application. This includes areas in and around homes, schools, public buildings or any other areas where they could be exposed.

Apply only when potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversion, application equipment and sprayer settings.

PROTECTIVE CLOTHING AND EQUIPMENT
Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair. Gloves are not required during application within a closed cab.

OPERATOR USE PRECAUTIONS
If the product comes in contact with clothing/PPE, remove all contaminated clothing/PPE, wash the outside of gloves with soap and water before removing, wash contaminated skin with soap and water, and then dress in clean clothing. Launder contaminated clothing/PPE regularly and separately from other laundry. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Heavily contaminated or drenched clothing and other absorbent materials contaminated with this product should be discarded. DO NOT reuse them.
Avoid contact with eyes, skin and clothing. Avoid breathing spray mist.

COMBUSTIBLE. Do not use or store near heat or open flame.

FIRST AID
Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.
If swallowed: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.
If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.
If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.
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 centre or doctor for treatment advice.

TOXICOLOGICAL INFORMATION
THIS PRODUCT CONTAINS A PETROLEUM DISTILLATE. Vomiting may cause aspiration pneumonia. The decision of whether to induce vomiting or not should be made by the attending

physician. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration of petroleum based solvents must be weighed against toxicity when considering emptying the stomach. No specific antidote. Employ supportive care. Treatment should be based on the judgment of the physician in response to reactions of the patient.

AGRICULTURAL CHEMICAL
Do not ship or store with food, feeds, drugs or clothing.

ENVIRONMENTAL PRECAUTIONS
Toxic to non-target terrestrial plants and aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

This product contains an active ingredient and aromatic petroleum distillates, which are toxic to aquatic organisms.

STORAGE
Store in original containers in a secure, dry heated storage. If product is frozen, bring to room temperature and agitate before use. Do not allow contamination of seeds, plants, fertilizers or other pesticides. Store this product away from food or feed. If containers are damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste.

DISPOSAL
Recyclable Containers

DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial or territorial requirements.

Returnable Containers

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Refillable Containers (containers that can be refilled for the user by the distributor/dealer)

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For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for cleanup of spills.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

(Booklet)

GROUP	4	HERBICIDE

Rainbow Fluroxypyr 333 EC

HERBICIDE

Emulsifiable concentrate

COMMERCIAL (AGRICULTURAL)

Rainbow Fluroxypyr 333 EC is a selective herbicide for post-emergent control of annual broadleaved weeds including cleavers and certain ALS-resistant broadleaved weeds such as kochia in spring wheat, durum wheat, winter wheat, spring barley, oats, rangeland, permanent pasture, rights-of-way, industrial and other non-crop areas of Canada. Rainbow Fluroxypyr 333 EC will also suppress hemp-nettle, common chickweed and wild buckwheat.

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GENERAL INFORMATION

Rainbow Fluroxypyr 333 EC is a selective post-emergent herbicide for the control of annual broadleaved weeds in spring wheat, durum wheat, winter wheat, spring barley and oats, not underseeded with legumes. Rainbow Fluroxypyr 333 EC offers a novel mode of action for controlling hard-to-kill annual broadleaved weeds such as kochia (including ALS resistant biotypes) and cleavers. Rainbow Fluroxypyr 333 EC will also provide suppression of hempnettle, wild buckwheat and chickweed.

MODE OF ACTION

Rainbow Fluroxypyr 333 EC is a systemic auxin-type herbicide and moves within the plant for control of exposed and underground plant tissues. The product controls weeds by disrupting normal plant growth patterns. Symptoms of weeds include epinasty (twisting of the stems) and swollen nodes.

GENERAL USE PRECAUTIONS

Sensitive Plants

Do not apply Rainbow Fluroxypyr 333 EC directly to, or otherwise permit it to come in direct contact with susceptible crops or desirable plants including alfalfa, edible beans, canola, flowers and ornamentals, lentils, lettuce, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tomatoes or tobacco.

Non-Target Sites

Do not apply where proximity of susceptible crops or other desirable plants is likely to result in exposure to spray or spray drift. See Environmental Precautions section of the label.

Crop Rotation

Fields previously treated with Rainbow Fluroxypyr 333 EC can be seeded the following year to alfalfa, barley, canola, corn, dry beans, fababeans, flax, forage grasses, lentils, mustard, oats, peas, potatoes, rye, soybeans, sugar beets, sunflowers or wheat or fields can be summerfallowed.

Tank Mixtures

This product may be tank mixed with a fertilizer, a supplement or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Rainbow CropSciences Inc. at (630) 828-5088 for information before applying any tank mix that is not specifically recommended on this label.

Spray Equipment Precaution

Do not apply through any type of irrigation system.

To Reduce Spray Drift

- Use nozzles delivering higher volumes and coarser droplets.
- Use low pressures (200 to 275 kPa).
- Spray when the wind velocity is 15 km/hr or less.
- Spot treatments should only be applied with a calibrated boom to prevent over-application.

Equipment Clean-Up

Equipment used to apply Rainbow Fluroxypyr 333 EC should not be used to apply other pesticides to sensitive crops without thorough cleaning. Contact your Rainbow Fluroxypyr 333 EC dealer for detailed equipment cleaning procedures.

DIRECTIONS FOR USE

READ THE ENTIRE LABEL BEFORE USE. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE. DO NOT APPLY TO CROPS

UNDERSEEDED WITH LEGUMES.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Crops Registered
spring wheat
durum wheat
winter wheat
spring barley
oats

RAINBOW FLUROXYPYR 333 EC ALONE
Apply Rainbow Fluroxypyr 333 EC with ground or aerial application equipment (see Application directions section) for post-emergent control of cleavers and kochia, including ALS resistant kochia and other broadleaved weeds infesting spring wheat, durum wheat, winter wheat, spring barley and oats. See following table for weeds controlled/suppressed and applications rates.

Weeds Controlled Or Suppressed By Rainbow Fluroxypyr 333 EC Alone

Weeds Controlled	**Rainbow Fluroxypyr 333 EC Rate (L/ha)**
chickweed♦ (up to 8 cm)	0.41
cleavers (1-6 whorls)	0.21
cleavers (1-8 whorls)	0.31
kochia♦ (2-8 leaf)	0.31
round-leaved mallow (1-6 leaf)	0.41
volunteer flax (1-12 cm)	0.31
Weeds Suppressed	**Rainbow Fluroxypyr 333 EC Rate (L/ha)**
hempnettle (2-6 leaf)	0.41
stork's-bill (1-8 leaf)	0.31
wild buckwheat (1-8 leaf)	0.21

♦ Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

NOTE: Rainbow Fluroxypyr 333 EC activity is influenced by weather conditions. Optimum activity requires active crop and weed growth. The temperature range for optimum activity is 12˚C to 24˚C. Reduced activity will occur when temperatures are below 8˚C or above 27˚C. Frost before application (3 days) or shortly after (3 days) may reduce weed control and crop tolerance. Weed control may be reduced during stress conditions, e.g., drought, heat or cold stress, or if weeds have initiated flowering, or if heavy infestations exist.

Application Timing
Apply to actively growing spring wheat, durum wheat, spring barley and oats from the 2 leaf crop growth stage up to and including initiation of stem elongation. Apply to winter wheat in the spring from the 3 tiller stage to just before the flag leaf stage. Apply when weeds are actively growing. Best results are obtained from applications made to seedling weeds. Only weeds emerged at the time of treatment will be controlled. Extreme growing conditions such as drought or near freezing temperature prior to, at and following time of application may reduce weed control and increase the risk of crop injury at all stages of growth. Foliage that is wet at the time of application may decrease control. Rainbow Fluroxypyr 333 EC applications are rainfast within 1 hour after application. Under conditions of low crop and high weed density, control may be reduced.

Preharvest/Grazing Intervals (Rainbow Fluroxypyr 333 EC applied alone)

- Livestock may be grazed on treated crops 3 days following application.
- Do not harvest the treated crop within 60 days after application.

APPLICATION DIRECTIONS (GROUND AND AERIAL APPLICATIONS)

(1) Ground Application

Using ground equipment, apply Rainbow Fluroxypyr 333 EC alone or with tank mix partners as a broadcast treatment. Apply Rainbow Fluroxypyr 333 EC alone at the recommended rates in a spray volume of 50-100 L water/ha. When tank mixing refer to the label of the tank mix partner label for additional instructions, water volumes, precautions and weeds controlled.

Field sprayer application: DO NOT apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. DO NOT apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) Medium classification. Boom height must be 60 cm or less above the crop or ground.

(2) Aerial Application

Use Rainbow Fluroxypyr 333 EC alone or tank mixed with a product registered for aerial application as a broadcast treatment. Apply the recommended rates of Rainbow Fluroxypyr 333 EC and tank mix partner as indicated elsewhere on this label. Apply in a spray volume of 30-50 L water/ha. When tank mixing refer to the label of the tank mix partner label for additional instructions, water volumes, precautions and weeds controlled.

Conventionally piloted aircraft application: DO NOT apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) Medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

Apply only by aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate specified for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices or a Global Positioning System (GPS).

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. The pilot is allowed to load premixed chemicals with a closed system. It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the registrant at (630) 828-5088 or obtain technical advice from the distributor or your provincial or territorial agricultural representative. Application of this specific product must meet and/or conform to the following:
Volume: Apply the specified rate in a minimum spray volume of 30 litres per hectare for conventionally piloted aircraft.

- The interaction of many equipment-and-weather-related factors determine the potential for spray drift. Users are responsible for considering all these factors when making decisions.

The following drift management requirement must be followed to avoid off-target drift movement from aerial applications: Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

SPRAY BUFFER ZONES

A spray buffer zone is NOT required for:
- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage

For application to rights-of-way, spray buffer zones for protection of sensitive terrestrial habitats are not required; however, the best available application strategies which minimize off-site drift, including meteorological conditions (e.g., wind direction, low wind speed) and spray equipment (e.g., Coarse droplet sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified spray buffer zones for protection of sensitive aquatic habitats.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	**Crop/Site**	**Spray Buffer Zones (metres) Required for the Protection of:**				
		Freshwater Habitat of Depths:		**Estuarine/Marine Habitat of Depths:**		**Terrestrial Habitat**
		Less than 1 m	**Greater than 1 m**	**Less than 1 m**	**Greater than 1 m**	
Field sprayer	Spring wheat, durum wheat, winter wheat, spring barley and oats	1	0	1	1	3
	Rangeland and permanent pasture land, industrial and other non-crop areas	1	1	1	1	5*

Aerial	Spring wheat, durum wheat, winter wheat, spring barley and oats	Fixed Wing	5	0	1	1	95
		Rotary Wing	3	0	1	1	80

* Spray buffer zones for the protection of terrestrial habitats are not required for use on railroad ballast, rail and hydro rights-of-way, utility easements, roads, and training grounds and firing ranges on military bases.

When tank mixes are permitted, consult the labels of the tank mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASABE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product for conventional application equipment can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Drift Mitigation portion of the Canada.ca website.

TANK MIX COMBINATIONS - RAINBOW FLUROXYPYR 333 EC + LIQUID ACHIEVE[1] SC HERBICIDE OR ACHIEVE LIQUID HERBICIDE (Do not apply to oats)

For control of wild oats and green foxtail in spring wheat, winter wheat and spring barley apply 0.5 L/ha of Liquid Achieve SC Herbicide or Achieve Liquid Herbicide with Rainbow Fluroxypyr 333 EC . Refer to the above table for rates and broadleaved weeds controlled or suppressed with Rainbow Fluroxypyr 333 EC. To control additional broadleaved weeds tank mix with either 2,4-D ester or MCPA ester up to a maximum of 560 g ae/ha. (equivalent to 1.0 L/ha of 2,4-D LV-600 Herbicide (0.85 L/ha 2,4-D Ester 700 II Herbicide) or 1.12 L/ha of MCPA LV 500 Herbicide) (0.93 L/ha IPCO MCPA Ester 600 Herbicide) or 1.5 to 2.0 L/ha Curtail M Herbicide. Refer to the 2,4- D ester or MCPA ester tank mix partner label for rates less than 560 g ae/ha and weeds controlled.

Mixing Instructions

1. Begin to fill sprayer tank with clean water, and engage agitator. **Agitation must be continued throughout the entire mixing and spraying procedure.**
2. When the sprayer is three quarters full of water, add Liquid Achieve SC Herbicide or Achieve Liquid Herbicide. If more than one container of Liquid Achieve SC Herbicide or Achieve Liquid Herbicide is to be used, add all Liquid Achieve SC Herbicide or Achieve Liquid Herbicide containers prior to adding Rainbow Fluroxypyr 333 EC.
3. Add Rainbow Fluroxypyr 333 EC next. If more than one container of Rainbow Fluroxypyr 333 EC is to be used, add all Rainbow Fluroxypyr 333 EC containers prior to adding any other tank mix partners.
4. If 2,4-D ester, MCPA ester or Curtail M Herbicide are also being added, add these next. If more than one container of 2,4-D ester, MCPA ester or Curtail M Herbicide is to be used, add all 2,4-D ester, MCPA ester or Curtail M Herbicide containers prior to adding any adjuvant.
5. Lastly, add the required amount of adjuvant and then continue to fill tank to desired level with water.

TANK MIX COMBINATIONS - RAINBOW FLUROXYPYR 333 EC + CURTAIL™ M HERBICIDE

Rainbow Fluroxypyr 333 EC mixed with Curtail M Herbicide will control a wide spectrum of broadleaf weeds. Refer to Curtail M Herbicide label for additional precautions and directions for use, particularly crop rotation restrictions.

Mixing Instructions

Add the correct amount of Rainbow Fluroxypyr 333 EC to spray tank 1/2 filled with water and agitate. Add the correct amount of Curtail M Herbicide and continue to agitate.

Timing of Application

Apply post-emergence when weeds are in the seedling stage (2-4 leaf) and when spring wheat, durum

wheat, spring barley and oats are in the 3 leaf to just before the flag leaf emergence stage. Apply to winter wheat in the spring from the 3 tiller stage to just before the flag leaf stage. Do not apply later than the flag leaf stage.

Low Rate: To control or suppress the following weeds apply a uniform spray containing Rainbow Fluroxypyr 333 EC at 0.31 L/ha tank mixed with Curtail M Herbicide at 1.5 L/ha.

Weeds Controlled

- Canada thistle (low infestations)
- cleavers (1-8 whorls)
- flax, volunteer (1-12 cm)
- flixweed (spring seedling 2-4 leaf)
- kochia♦♦♦
- lamb's-quarters
- mustard, wild
- shepherd's-purse
- stinkweed
- sunflower, volunteer
- wild buckwheat (1-8 leaf)

Weeds Suppressed

- stork's-bill (1-8 leaf)

High Rate: To control or suppress the following weeds apply a uniform spray containing Rainbow Fluroxypyr 333 EC at 0.41 L/ha tank mixed with Curtail M Herbicide at 2.0 L/ha.

Weeds Controlled

- Canada thistle♦
- canola (volunteer)
- cleavers (1-8 whorls)
- common chickweed♦
- common groundsel
- dandelion♦♦
- flixweed♦♦
- hemp-nettle (2-6 leaf stage)
- kochia♦♦♦
- lamb's-quarters
- redroot pigweed
- round-leaved mallow (1-6 leaf)
- Russian pigweed
- scentless chamomile
- shepherd's-purse
- smartweed
- sow-thistle (annual)
- sow-thistle (perennial) ♦
- stinkweed
- stork's-bill (1-8 leaf)
- sunflower (volunteer)
- tartary buckwheat
- volunteer flax (1-12 cm)
- wild buckwheat (1-8 leaf)
- wild mustard

♦ Season long control, with some regrowth in the fall (top growth control).
♦♦ Spring rosettes only.

♦♦♦ Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme

The active ingredients in this tank mixture will only control chickweed that is emerged at TIME OF application. Chickweed plants which emerge after application will not be controlled. To improve the reduction in chickweed population at the end of season, delay the timing of application as late as possible to when the majority of chickweed plants have emerged. The reduction in chickweed population will also be improved in crops which are more competitive and which allow limited light penetration.

Pre-Harvest/Grazing Intervals (Rainbow Fluroxypyr 333 EC + Curtail M Herbicide)

- Do not cut or graze treated fields within 7 days after application.
- Do not harvest the treated mature crop within 60 days after application.

TANK MIXES WITH RAINBOW FLUROXYPYR 333 EC + CURTAIL M HERBICIDE FOR ANNUAL GRASS CONTROL (Do not apply to oats)

Tank mixtures of Rainbow Fluroxypyr 333 EC + Curtail M Herbicide with other herbicides will provide control of additional weeds. See following table for tank mixes with Rainbow Fluroxypyr 333 EC + Curtail M Herbicide. Follow all precautions, minimal interval to harvest and directions for use on the Rainbow Fluroxypyr 333 EC and tank mix partner labels.

Tank Mix Combinations with Rainbow Fluroxypyr 333 EC at 0.31 L/ha + Curtail M Herbicide at 1.5 L/ha or Rainbow Fluroxypyr 333 EC at 0.41 L/ha + Curtail M Herbicide at 2.0 L/ha

Herbicide Tank Mix Partner	Crops Registered	Rate of Tank Mix Partner	Adjuvant Rate	Additional Weeds
Liquid Achieve SC Herbicide	spring wheat, durum wheat, winter wheat, spring barley	0.5 L/ha	Carrier 0.5 L/100 L of spray volume (0.5% v/v)	green foxtail wild oats
Achieve Liquid Herbicide	spring wheat, durum wheat, winter wheat, spring barley	0.5 L/ha	Intake Adjuvant 0.5 L/100 L of spray volume (0.5% v/v)	green foxtail wild oats

TANK MIX COMBINATION - Rainbow Fluroxypyr 333 EC + 2,4-D ESTER HERBICIDE (Do not apply to oats)

For control of a wide spectrum of broadleaved weeds (see following table) apply Rainbow Fluroxypyr 333 EC tank mixed with 2,4-D ester herbicide. Apply post-emergence when weeds are in the seedling stage (2-4 leaf) and when spring wheat, durum wheat, winter wheat and spring barley are in the 4 leaf to flag leaf stage. Apply to winter wheat in the spring from the 3 tiller stage to just before the flag leaf stage. Application before the 4 leaf stage of wheat and barley may cause severe twisting of leaves and stem, and head deformities which may reduce yield up to 10%. Do not apply later than the flag leaf stage.

Rates of Applications

I. Low Rate: To control the following weeds apply a uniform spray containing 0.23 L/ha Rainbow Fluroxypyr 333 EC and 420 g a.e./ha 2,4-D ester herbicide (equivalent to 0.64 L/ha of 2,4-D Ester LV700 Herbicide).

Weeds Controlled

- bluebur
- burdock
- canola (volunteer)
- cleavers (1-6 whorls)
- clovers (sweet)

- cocklebur
- flixweed
- field horsetail♦
- goat's-beard
- hoary cress♦
- kochia♦♦♦
- lamb's-quarters
- mustards (except green, dog & tansy)
- plantain
- prickly lettuce
- ragweed
- shepherd's-purse
- stinkweed
- sunflower (annual)
- vetch
- wild radish
- wild mustard
- wild buckwheat (1-6 leaf)

II. **High Rate:** To control the above weeds plus the additional weeds listed below, apply a uniform spray containing 0.31 L/ha of Rainbow Fluroxypyr 333 EC and 560 g a.e./ha of 2,4-D ester herbicide (equivalent to 0.85 L/ha of 2,4-D Ester LV700 Herbicide).

Additional Weeds Controlled:

- blue lettuce♦
- cleavers (1-8 whorls)
- dandelion♦♦
- docks
- dog mustard
- field bindweed♦
- field peppergrass
- gumweed
- hairy galinsoga
- hedge bindweed
- lady's-thumb
- leafy spurge♦
- oak-leaved goosefoot
- redroot pigweed
- round-leaved mallow (1-6 Leaf)
- Russian thistle
- smartweed
- stork's-bill (1-8 leaf)
- tansy mustard
- tartary buckwheat
- volunteer flax (1-12 cm)
- wild buckwheat (1-8 leaf)

Weeds Suppressed:

- common chickweed♦♦♦ (up to 8 cm)
- Canada thistle♦
- hemp-nettle (2-6 leaf stage)
- sow-thistle (annual)
- sow-thistle (perennial) ♦

♦ Top growth control only
♦♦ Spring rosettes

♦♦♦ Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme

NOTE: The activity of Rainbow Fluroxypyr 333 EC combined with 2,4-D ester herbicide is influenced by weather conditions. Optimum activity requires active crop and weed growth. The temperature range for optimum activity is 12˚C to 24˚C. Reduced activity will occur when temperatures are below 8˚C or above 27˚C. Frost before application (3 days) or shortly after (3 days) may reduce weed control and crop tolerance. Weed control may be reduced during stress conditions, e.g., drought, heat or cold stress, or if weeds have initiated flowering, or if heavy infestations exist.

Mixing Instructions

Add the correct amount of Rainbow Fluroxypyr 333 EC to spray tank 1/2 filled with water and agitate. Add the correct amount of 2,4-D ester herbicide and continue to agitate.

Pre-Harvest/Grazing Intervals (Rainbow Fluroxypyr 333 EC + 2,4-D ester herbicide)

- Do not permit lactating dairy animals to graze fields within 7 days after application.
- Do not harvest forage or cut hay within 30 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.
- Do not harvest the treated mature crop within 60 days after application.

TANK MIX COMBINATIONS - RAINBOW FLUROXYPYR 333 EC + 2,4-D ESTER HERBICIDE + OTHER HERBICIDES (Do not apply to oats)

Tank mixtures of Rainbow Fluroxypyr 333 EC + 2,4-D ester herbicide with other herbicides will provide control of additional weeds. For products which may be tank mixed with Rainbow Fluroxypyr 333 EC + 2,4-D ester herbicide and the additional weeds controlled see following table. Follow all precautions, minimal interval to harvest and directions for use on the Rainbow Fluroxypyr 333 EC and tank mix partner labels.

Tank Mix Combinations with Rainbow Fluroxypyr 333 EC (0.31 L/ha) + 2,4-D ester herbicide (560 g a.e./ha) or Rainbow Fluroxypyr 333 EC (0.23 L/ha) + 2,4-D ester herbicide (420 g a.e./ha)

Herbicide Tank Mix Partner	Crops Registered	Rate of Tank Mix Partner	Adjuvant Rate	Additional Weeds
Liquid Achieve SC Herbicide	spring wheat, durum wheat, winter wheat, spring barley	0.5 L/ha	Carrier 0.5 L/100 L of spray volume (0.5% v/v)	green foxtail, wild oats
Achieve Liquid Herbicide ♦, ♦♦♦	spring wheat, durum wheat, winter wheat, spring barley	0.5 L/ha	Intake Adjuvant 0.5 L/100 L of spray volume (0.5% v/v)	green foxtail, wild oats

Simplicity™♦♦♦	spring wheat, durum wheat, winter wheat	0.5 L/ha	None required	barnyard grass (1-5 leaf), common chickweed (up to 10 cm), hemp nettle (1-8 leaf), Japanese brome (1-6 leaf), wild oats (up to 4 leaf, 2 tiller), wild buckwheat (1-4 leaf)

♦ This tank mix may cause temporary crop injury. However, yield will not normally be affected. This tank mix may reduce control of wild oats compared to Liquid Achieve SC Herbicide or Achieve Liquid Herbicide alone.

♦♦♦ Tank mixing with Simplicity only applies to the low rate of Rainbow Fluroxypyr 333 EC + 2,4-D ester

TANK MIX COMBINATIONS – RAINBOW FLUROXYPYR 333 EC + DRAFT OR REFINE SG HERBICIDE

For control of a wide spectrum of broadleaved weeds (see following table) Rainbow Fluroxypyr 333 EC can be tank mixed with Draft or Refine SG Herbicide. Apply post-emergence when weeds are actively growing, with best results on seedling weeds that are less than 10 cm in height. Only weeds emerged at the time of treatment will be controlled. Thorough covering of the target weeds is essential. The tank mix can be applied to actively growing spring wheat, including durum, spring barley and oats from the 2 leaf crop growth stage up to and including initiation of stem elongation. The tank mix of Draft or Refine SG Herbicide with Rainbow Fluroxypyr 333 EC allows for the control of Group 2 resistant cleavers at 0.21 L/ha and kochia 0.31 L/ha. Do not apply to crops underseeded to legumes or grasses.

Rates of Application To control the following weeds apply a uniform spray containing 0.21 to 0.41 litres of Rainbow Fluroxypyr 333 EC with 20 g/ha Draft or 30 g/ha of Refine SG Herbicide and 2 litres per 1000 L spray solution of non-ionic surfactant (Agral 90*, Ag-Surf** or Citowett Plus) with a spray volume of 100 L/ha.

* Choose one of Agral 90 Non-Ionic Wetting & Spreading Agent Liquid or Agral 90 Non-Ionic Liquid Wetting & Spreading Agent.

** Choose one of IPCO Ag-Surf Original, IPCO Ag-Surf II, Weedaway Ag-Surf Liquid Spray Adjuvant or Weedaway Ag-Surf II.

Weeds Controlled or Suppressed

Weeds Controlled at 0.21 L/ha of Rainbow Fluroxypyr 333 EC and 20 g/ha Draft, or 30 g/ha of Refine SG Herbicide:

- annual smartweed (green smartweed, lady's thumb)
- ball mustard
- chickweed (1-6 leaf)[1]
- cleavers (1-4 whorls)
- corn spurry
- cow cockle
- flixweed
- groundsel (common)
- hemp-nettle
- kochia[2]
- lamb's-quarters
- narrow-leaved hawk's beard
- redroot pigweed
- Russian thistle
- shepherd's purse
- stinkweed

- tartary buckwheat
- volunteer rapeseed[3]
- volunteer sunflower
- wild buckwheat[4]
- wild mustard

[1] Spray before canopy prevents thorough coverage of weeds. Chickweed emerging after application will not be controlled.

[2] Excluding Group 2 resistant kochia

[3] The tank mix will not control imazethapyr tolerant canola varieties (e.g., Clearfield varieties or other varieties with the Pursuit Smart trait)

[4] Apply to actively growing wild buckwheat at the cotyledon to 3 leaf stage. Control may be reduced under environmental stress. Large plants may regrow after treatment.

Weeds suppressed at 0.21 L/ha Rainbow Fluroxypyr 333 EC and 20 g/ha Draft, or 30 g/ha of Refine SG Herbicide:

- Canada thistle[5]
- round leaved mallow (2-6 leaf)[6]
- scentless chamomile
- sow thistle[5]
- stork's bill (2-6 leaf stage)
- toadflax (up to 15 cm)[7]

[5] Apply when most of the thistles have emerged and are actively growing. Apply before bud stage and before crop canopy prevents thorough coverage of thistles, when thistles are no larger than 15 cm in height for best top growth control. A single application will effectively inhibit the ability of emerged thistles to compete with the crop. Later emerging thistles will not be controlled.

[6]Apply to actively growing round leaved mallow. Will keep mallow stunted, but may not be able to reduce overall populations

[7]A control program for this weed includes chemical application and frequent tillage.

Additional Weeds Controlled at 0.31 L/ha of RAINBOW FLUROXYPYR 333 EC and 20 g/ha Draft, or 30 g/ha of Refine SG Herbicide:

- kochia (2-8 leaf; including group 2 resistant biotypes)
- volunteer flax (1-12 cm)

Additional Weeds Controlled and Suppressed at 0.41 L/ha RAINBOW FLUROXYPYR 333 EC and 20 g/ha Draft, or 30 g/ha of Refine SG Herbicide:

Weeds Controlled

- round leaved mallow (1-6 leaf)

Weeds Suppressed

- chickweed (up to 8 cm; including group 2 resistant biotypes)

Mixing Instructions

Fill the tank to 1/3 full of clean water, and with the agitator running, add the required amount of Draft or Refine SG Herbicide and continue to agitate for a minimum of 5 minutes to ensure that Draft or Refine SG Herbicide is completely dissolved. Add the required amount of RAINBOW FLUROXYPYR 333 EC at a reduced agitation. Add the rest of the water and then add adjuvant. Use a spray volume of 100 L/ha.

Pre-Harvest/Grazing Intervals

- Livestock may not be grazed or fed crops within 7 days of application
- Do not harvest the treated crop within 60 days of application

TANK MIX COMBINATIONS – RAINBOW FLUROXYPYR 333 EC + 2,4-D ESTER HERBICIDE +

DRAFT OR REFINE SG HERBICIDE OR RETAIN A HERBICIDE or RETAIN A SG HERBICIDE (Do not apply to oats)

Spring Wheat (excluding durum) and spring barley

For control of a wide spectrum of broadleaf weeds, including cleavers, RAINBOW FLUROXYPYR 333 EC may be tank mixed with 2,4-D ester herbicide and Draft or Refine SG Herbicide or Retain A Herbicide or Retain A SG Herbicide. Apply RAINBOW FLUROXYPYR 333 EC at 0.16 L/ha tank mixed with Draft at 20 g/ha, or Refine SG Herbicide or Retain A Herbicide or Retain A SG Herbicide at 30 g/ha, 2,4-D ester herbicide at 280 g a.e./ha (equal to 0.5 L/ha of 2,4-D LV-600 Herbicide or 0.42 L/ha of 2,4-D Ester 700 II Herbicide) and a non-ionic surfactant (Agral 90*, Ag-Surf** or Citowett Plus) at 2 L per 1000 L of spray solution. A spray volume of 100 L/ha should be utilized. Apply post-emergence when weeds are in the seedling up to 4 leaf/whorls stage, and when spring wheat (excluding durum) and spring barley are in the 4 leaf to flag leaf stage. **Do not apply to crops underseeded to legumes.**

* Choose one of Agral 90 Non-Ionic Wetting & Spreading Agent Liquid or Agral 90 Non-Ionic Liquid Wetting & Spreading Agent.

** Choose one of IPCO Ag-Surf Original, IPCO Ag-Surf II, Weedaway Ag-Surf Liquid Spray Adjuvant or Weedaway Ag-Surf II.

Weeds Controlled or Suppressed

Weeds Controlled:

- annual smartweed (green smartweed, lady's thumb)
- ball mustard
- chickweed (1-6 leaf)[1]
- cleavers[2]
- corn spurry
- cow cockle
- flixweed
- groundsel (common)
- hemp-nettle
- kochia[3]
- lamb'-quarters
- narrow-leaved hawk's beard
- redroot pigweed
- Russian thistle
- shepherd's purse
- stinkweed
- tartary buckwheat
- volunteer rapeseed[4]
- volunteer sunflower
- wild buckwheat[5]
- wild mustard

[1] Spray before crop canopy prevents thorough coverage of weeds. Chickweed emerging after application will not be controlled.

[2] Excluding Group 2 resistant cleavers

[3] Excluding Group 2 resistant kochia

[4] The tank mix will not control imazethapyr tolerant canola varieties (e.g., Clearfield varieties or other varieties with the Pursuit Smart trait)

[5] Apply to actively growing wild buckwheat from the cotyledon to 3 leaf stage. Control may be reduced under environmental stress. Large plants may regrow after treatment

Weeds Suppressed:

- Canada thistle[6]
- sow thistle[6]

- round leaved mallow (2-6 leaf)[7]
- stork's bill (2-6 leaf)
- scentless chamomile
- toadflax (to 15 cm)[8]

[6] Apply when most of the thistles have emerged and are actively growing. Apply before bud stage, and before crop canopy prevents thorough coverage of thistles, when thistles are no larger than 15 cm in height for best top growth control. A single application will effectively inhibit the ability of emerged thistles to compete with the crop. Later emerging thistles will not be controlled.

[7] Apply to actively growing round leaved mallow. Will keep mallow stunted, but may not be able to reduce overall populations.

[8] A control program for this weed includes chemical application and frequent tillage.

Mixing Instructions

Fill the tank to 1/3 full of clean water. With agitator running, add required amount of Draft or Refine SG Herbicide or Retain A Herbicide or Retain A SG Herbicide and

continue to agitate for a minimum of 5 minutes to ensure the Draft or Refine SG Herbicide or Retain A Herbicide or Retain A SG Herbicide is completely dissolved. After it is fully dissolved add the RAINBOW FLUROXYPYR 333 EC with continuous agitation. Add the 2,4-D ester herbicide and the rest of the water. Then add adjuvant. Use a spray volume of 100 L/ha. Consult the 2,4-D label for additional application instructions and use precautions.

Preharvest/Grazing Intervals (RAINBOW FLUROXYPYR 333 EC + Draft + 2,4-D ester)

- Allow 7 days between application and grazing of lactating dairy animals.
- Do not harvest forage or cut hay within 30 days after application.
- Remove meat animals from treated fields at least 3 days prior to slaughter.
- Do not harvest the treated mature crop within 60 days after application.

TANK MIX COMBINATION - RAINBOW FLUROXYPYR 333 EC + MCPA ESTER HERBICIDE

For control of a wide spectrum of broadleaved weeds (see following table) apply RAINBOW FLUROXYPYR 333 EC at 0.31 L/ha tank mixed with MCPA LV 500 Herbicide at 1.12 L/ha. Apply post-emergence when weeds are in the seedling stage (2-4 leaf) and when spring wheat, durum wheat, spring barley and oats are in the 3-leaf to flag-leaf stage. Apply to winter wheat in the spring from the 3 tiller stage to just before the flag leaf stage. Application before the 3 leaf stage of wheat and barley may cause severe twisting of leaves and stem, and head deformities which may reduce yield up to 10%. Do not apply later than the flag leaf stage. Do not apply to cereals underseeded with a legume.

Mixing Instructions

Add the correct amount of RAINBOW FLUROXYPYR 333 EC to spray tank 1/2 filled with water and agitate. Add the correct amount of MCPA ester herbicide and continue to agitate.

Weeds Controlled or Suppressed by RAINBOW FLUROXYPYR 333 EC+ MCPA ester herbicide Tank Mix

Weeds Controlled

- burdock, common
- canola, volunteer
- cleavers (1-8 whorls)
- cocklebur
- flax, volunteer (1-12 cm)
- flixweed
- hempnettle (2-6 leaf)
- kochia♦
- lamb's-quarters
- mustard (except dog & green tansy)
- pigweed, redroot (1-4 leaf)

- prickly lettuce
- ragweed, common
- shepherd's-purse
- stinkweed
- sunflower, annual
- vetch
- wild radish
- wild buckwheat (1-8 leaf)

Weeds Suppressed

- green smartweed
- stork's-bill (1-8 leaf)

♦ Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

Pre-Harvest/Grazing Intervals (RAINBOW FLUROXYPYR 333 EC + MCPA ester herbicide)

- Allow 7 days between application and grazing/cutting for hay.
- Do not harvest the treated mature crop within 60 days after application.

TANK MIX COMBINATIONS - RAINBOW FLUROXYPYR 333 EC + MCPA ESTER HERBICIDE + OTHER HERBICIDES (Do not apply to oats)

Tank mixtures of RAINBOW FLUROXYPYR 333 EC+ MCPA ester herbicide with other herbicides will provide control of additional weeds. For products which may be tank mixed with RAINBOW FLUROXYPYR 333 EC + MCPA ester herbicide and the additional weeds controlled see following table. Follow all precautions, minimal interval to harvest and directions for use (including timing of application) on the Rainbow Fluroxypyr 333 EC and tank mix partner labels

Tank Mix Combinations with Rainbow Fluroxypyr 333 EC (0.31 L/ha) + MCPA LV 500 Herbicide (1.12 L/ha)

Herbicide Tank Mix Partner	Crops Registered	Rate/ha	Adjuvant Rate	Additional Weeds
Liquid Achieve SC Herbicide	spring wheat, durum wheat, winter wheat, spring barley	0.5 L/ha	Carrier 0.5 L/ha (0.5% v/v)	green foxtail wild oats
Achieve Liquid♦ Herbicide	spring wheat, durum wheat, winter wheat, spring barley	0.5 L/ha	Intake Adjuvant 0.5 L/ha (0.5% v/v)	green foxtail wild oats

♦ MCPA ester can be tank mixed at rates up to a maximum of 560 g ae/ha with this tank mix combination.

TANK MIX COMBINATION - RAINBOW FLUROXYPYR 333 EC +SIMPLICITY™ (Do not apply to oats)

For control of a wide spectrum of broadleaf and grass weeds (see following table) in spring wheat, durum wheat and winter wheat, apply Rainbow Fluroxypyr 333 EC tank mixed with Simplicity. Apply post-emergence when weeds are actively growing: grass weeds up to the 4 leaf, 2 tiller stage and broadleaf weeds as indicated in the following table. Best results are obtained from applications made to seedling weeds. Apply to actively growing spring or durum wheat from the 3 leaf stage to the first node stage. Apply to winter wheat in the 2-7 leaf, 4 tiller stage with a spring application. Extreme growing conditions such as drought or near freezing temperature prior to, at, or following time of application may reduce weed control and increase the risk of crop injury at all stages of growth. Under conditions of low crop and high weed density, control may be reduced.

Mixing Instructions

Fill the sprayer tank ½ full of water and start sprayer tank agitation. Add the required amount of Simplicity. Add the correct amount of Rainbow Fluroxypyr 333 EC and continue to agitate.

Preharvest/Grazing Intervals (Rainbow Fluroxypyr 333 EC and Simplicity)

- Livestock may be grazed on treated crops 7 days following application.
- Do not harvest the treated crop within 60 days after application.

Rates of Application

I. **Low Rate:** To control or suppress the following weeds apply a uniform spray containing Rainbow Fluroxypyr 333 EC at 0.21 L/ha tank mixed with Simplicity at 375 mL/ha.

Weeds Controlled

- cleavers (1-6 whorls)
- wild oats (up to 4 leaf, 2 tiller)♦

♦ Under low wild oat populations (<75 plants/m^2)

II. **High Rate:** To control the above weeds plus the additional weeds listed below, apply a uniform spray containing Rainbow Fluroxypyr 333 EC at 0.31 L/ha with Simplicity at 500 mL/ha.

Additional Weeds Controlled

barnyard grass (1-5 leaf)	kochia♦ (2-8 leaf)
chickweed, common (up to 10 cm)	red root pigweed (1-8 leaf)
cleavers (1-8 whorls)	smartweed (lady's thumb, 1-5 leaf)
foxtail, yellow (1-5 leaf)	volunteer canola♦♦ (1-6 leaf)
hemp nettle (1-8 leaf)	volunteer flax (1-12 cm)
Japanese brome (1-6 leaf)	

♦ Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

♦♦ will not control volunteer Imidazolinone-tolerant canola

Additional Weeds Suppressed

brome, downy (2-6 leaf, 2 tillers)	storks-bill (1-8 leaf)
foxtail, green (1-5 leaf)	wild buckwheat (1-4 leaf)

TANK MIX COMBINATIONS – RAINBOW FLUROXYPYR 333 EC + SIMPLICITY + OTHER HERBICIDES (Do not apply to oats)

When tank mixing Rainbow Fluroxypyr 333 EC + Simplicity at either the low or high rates, the addition of other herbicides will provide control of additional weeds. For products which may be tank mixed with Rainbow Fluroxypyr 333 EC + Simplicity and the additional weeds controlled see following table. Follow all precautions, minimal interval to harvest and directions for use on the Rainbow Fluroxypyr 333 EC and tank mix partner labels.

Tank Mix Combinations with Rainbow Fluroxypyr 333 EC (0.21 L/ha) + Simplicity (375 mL/ha) or Rainbow Fluroxypyr 333 EC (0.31 L/ha) + Simplicity (500 mL/ha)

Herbicide Tank Mix Partner	Crops Registered	Rate of Tank Mix Partner	Additional Weeds Controlled

2,4-D ester♦	spring wheat, durum wheat, winter wheat	Up to 420 g ae/ha	Susceptible weeds such as: mustard (except dog and green tansy), flixweed, bluebur, burdock, cocklebur, stinkweed, goatsbeard, prickly lettuce, lamb's-quarters, plantain, ragweeds, Russian thistle, shepherd's purse, annual sunflower, sweet clover, volunteer canola, wild buckwheat, wild radish ♦Consult 2,4-D ester labels for weed stages and rates
MCPA ester♦	spring wheat durum wheat, winter wheat	Up to 560 g ae/ha	Burdock (before the 4 leaf stage), cocklebur, flixweed, plantain, lamb's-quarters, mustards (except dog and tansy), prickly lettuce, ragweeds, Russian pigweed, shepherd's-purse, stinkweed, vetch, wild buckwheat, wild radish, wild (annual) sunflower. ♦Consult MCPA ester labels for weed stages and rates

RANGELAND, PERMANENT PASTURE, INDUSTRIAL AND OTHER NON-CROP AREAS OF CANADA

Rainbow Fluroxypyr 333 EC Alone
Apply Rainbow Fluroxypyr 333 EC for post-emergent control of kochia, including ALS resistant biotypes in non-cropland areas including roadsides, rights of way, permanent perennial grass cover areas, and industrial vegetation management areas. See Table for weed controlled and application rates.

Kochia Control by Rainbow Fluroxypyr 333 EC Alone

Weeds	Rainbow Fluroxypyr 333 EC Rate (L/ha)
Kochia♦ (2-8 leaf) Control	0.84
Kochia♦ (2-8 leaf) Suppression	0.42

♦ Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

NOTE: Rainbow Fluroxypyr 333 EC activity is influenced by weather conditions. Optimum activity requires active weed growth. The temperature range for optimum activity is 12˚C to 24˚C. Reduced activity will occur when temperatures are below 8˚C or above 27˚C. Frost before application (3 days) or shortly after (3 days) may reduce weed control. Weed control may be reduced during stress conditions, e.g., drought, heat or cold stress, or if weeds have initiated flowering, or if heavy infestations exist.

APPLICATION DIRECTIONS

Application Timing
Apply when weeds are actively growing. Best results are obtained from applications made to seedling weeds. Only weeds emerged at the time of treatment will be controlled. Extreme growing conditions such as drought or near freezing temperature prior to, at and following time of application may reduce weed control. Foliage that is wet at the time of application may decrease control. Rainbow Fluroxypyr 333 EC applications are rainfast within 1 hour after application.

Individual Plant or Spot/Strip Applications
Use the following mixing chart to mix Rainbow Fluroxypyr 333 EC with enough water to make the correct amount of spray solution. Use equipment designed for individual plant or spot/strip application, such as a backpack sprayer or hose and handgun, to spray weeds. Thoroughly and uniformly wet the foliage of all target plants but not to the point of runoff. Direct spray away from aquatic habitats and non-target terrestrial plants. DO NOT apply this product directly to fresh water

habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuaries or marine habitats.

Mixing Chart

Rainbow Fluroxypyr 333 EC	Spray Solution (water and herbicide)
4.2 – 8.4 mL	10 L
42 – 84 mL	100 L
420 – 840 mL	1000 L

Use the higher rate in the rate range for kochia control or when growing conditions are less than favourable. The maximum annual application rate is 840 mL/ha.

Restrictions

- **Grazing intervals:** There are no grazing restrictions for livestock following application.
- **Legumes:** Do not apply if the injury to legumes cannot be tolerated. Legumes may be less sensitive to herbicide injury after plant growth is mature and seed has set.
- Do not harvest grass for hay from treated areas within 7 days of application.

Tank Mix Combination – Rainbow Fluroxypyr 333 EC + Milestone™ Herbicide
Rainbow Fluroxypyr 333 EC can be tank mixed with Milestone Herbicide to broaden the spectrum of weeds and invasive plants controlled. Use 0.42 – 0.84 L/ha Rainbow Fluroxypyr 333 EC with 0.25 – 0.5 L/ha Milestone Herbicide. For mixing order see mixing instructions.

Mixing Instructions

1. Begin to fill sprayer tank with clean water, and engage agitator. **Agitation must be continued throughout the entire mixing and spraying procedure.**
2. When the sprayer is three quarters full of water, add Milestone Herbicide. If more than one container of Milestone Herbicide is to be used, add all Milestone Herbicide containers prior to adding any other tank mix partners.
3. Add Rainbow Fluroxypyr 333 EC next. Continue to fill tank to desired level with water.

RESISTANCE MANAGEMENT RECOMMENDATIONS
For resistance management, Rainbow Fluroxypyr 333 EC is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Rainbow Fluroxypyr 333 EC and other Group 4 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of Rainbow Fluroxypyr 333 EC or other Group 4 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected,

prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.

- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Rainbow CropSciences Inc. at (630) 828-5088.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.