

Flurox[®]-24

Herbicide Tank Mix

- **Nufarm Fluroxypyr Herbicide (PCP No 30194)**
- **2,4-D Ester 700 Liquid Herbicide (PCP No 27820)**



Nufarm

Grow a better tomorrow.

(Sleeve)

GROUP	4	HERBICIDE
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Nufarm Fluroxypyr Herbicide

Emulsifiable Concentrate

FOR SALE FOR USE IN WINTER WHEAT IN ONTARIO ONLY

Nufarm Fluroxypyr Herbicide is a selective herbicide for postemergent control of annual broadleaved weeds including cleavers and certain ALS-resistant broadleaved weeds such as kochia in spring wheat, durum wheat, , spring barley and oats. Nufarm Fluroxypyr Herbicide will also suppress hemp-nettle, common chickweed and wild buckwheat.

AGRICULTURAL

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

ACTIVE INGREDIENT: fluroxypyr, present as 1-methylheptyl ester ... 180 g/L

REGISTRATION NO. 30194 PEST CONTROL PRODUCTS ACT



DANGER

POISON

WARNING - EYE IRRITANT
CAUTION - SKIN IRRITANT

Nufarm Agriculture Inc.
Suite 350, 2618 Hopewell Place NE
Calgary, Alberta
T1Y 7J7
1-800-868-5444

24 Hour Emergency Response Number 1-800-424-9300

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

WARNING - EYE IRRITANT

CAUTION - SKIN IRRITANT

Danger - Causes substantial but temporary eye injury

Harmful if swallowed, inhaled or absorbed through skin

May cause skin irritation

DO NOT APPLY BY AIR

DO NOT get in eyes. Avoid contact with skin and clothing. Avoid breathing spray mist.

PROTECTIVE CLOTHING AND EQUIPMENT

At all times: Wear clean, body-covering coveralls.

During mixing and loading, and clean-up and repair: Wear goggles or face shield and chemical-resistant gloves. Rinse gloves before removal.

OPERATOR USE PRECAUTIONS

Wear freshly laundered clothing and clean protective equipment daily. At completion of spraying or end of the day take a shower immediately. Wash thoroughly with soap and water before eating, drinking, smoking or using the toilet. Remove contaminated clothing at the end of the work session and store and wash separately from household laundry using detergents and hot water before reuse. If herbicide penetrates clothing, remove immediately; then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist.

PHYSICAL OR CHEMICAL HAZARDS

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 petroleum distillates. Treatment should be based on judgment of the physician in response to reactions of the patient. Vomiting may cause aspiration pneumonia.

EMERGENCY TELEPHONE NUMBERS

For spills or transportation accidents, Chemtrec, 1-800-424-9300.

For health or environmental emergencies, ProPharma Group, 1-877-325-1840.

For product and use information, Nufarm Agriculture Inc., 1-800-868-5444.

AGRICULTURAL CHEMICAL

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

ENVIRONMENTAL HAZARDS

Overspray or drift to important wildlife habitats, such as ponds, wetlands, streams, woodlots and shelterbelts, should be avoided. A 15 metre buffer zone should be established between the area to be sprayed and aquatic environments or terrestrial habitats listed above. Do not contaminate water when disposing of equipment washwaters. Do not contaminate irrigation ditches or water used for domestic purposes.

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning of equipment.

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. Do not contaminate food, feedstuffs or domestic water supplies. 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 requirements.

Returnable Containers:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

Refillable Containers:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up 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.

2017-2230

(Booklet)

GROUP

4

HERBICIDE

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Emulsifiable Concentrate

FOR SALE FOR USE IN WINTER WHEAT IN ONTARIO ONLY

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KEEP OUT OF REACH OF CHILDREN

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PRECAUTIONS

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WARNING - EYE IRRITANT

CAUTION - SKIN IRRITANT

DANGER - CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY

HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN

MAY CAUSE SKIN IRRITATION

DO NOT APPLY BY AIR

DO NOT get in eyes. Avoid contact with skin and clothing. Avoid breathing spray mist.

PROTECTIVE CLOTHING AND EQUIPMENT

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OPERATOR USE PRECAUTIONS

Wear freshly laundered clothing and clean protective equipment daily. At completion of spraying or end of the day take a shower immediately. Wash thoroughly with soap and water before eating, drinking, smoking or using the toilet. Remove contaminated clothing at the end of the work session and store and wash separately from household laundry using detergents and hot water before reuse. If herbicide penetrates clothing, remove immediately; then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist.

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

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ENVIRONMENTAL HAZARDS

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STORAGE

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For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

GENERAL INFORMATION

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

MODE OF ACTION

Nufarm Fluroxypyr Herbicide 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 Nufarm Fluroxypyr Herbicide 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 Hazards section of the label.

Crop Rotation

Fields previously treated with Nufarm Fluroxypyr Herbicide can be seeded the following year to barley, canola, flax, forage grasses, lentils, mustard, oats, peas, rye or wheat or fields can be summerfallowed.

Tank Mixtures

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

Spray Equipment Precaution

Do not apply through any type of irrigation system.

DO NOT APPLY BY AIR.

To Reduce Spray Drift:

- Use nozzles delivering higher volumes and coarser droplets.
- Use low pressures (200 to 275 kPa).
- Use 100 L/ha of spray solution.
- 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.

To Reduce Runoff from Treated Areas:

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic matter such as clay). Avoid application of this product when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip (buffer zone) between the treated area and the edge of the water body.

Equipment Clean-Up

Equipment used to apply Nufarm Fluroxypyr Herbicide should not be used to apply other pesticides to sensitive crops without thorough cleaning. Contact your Nufarm Fluroxypyr Herbicide 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.

Crops Registered

spring wheat
durum wheat
spring barley
oats

NUFARM FLUROXYPYR HERBICIDE ALONE

Apply Nufarm Fluroxypyr Herbicide for postemergent control of cleavers and kochia, including ALS resistant kochia and other broadleaved weeds infesting spring wheat, durum wheat, spring barley and oats. See following table for weeds controlled/suppressed and applications rates.

Weeds Controlled or Suppressed By Nufarm Fluroxypyr Herbicide Alone

Weeds Controlled	Nufarm Fluroxypyr Herbicide Rate (L/ha)
cleavers (1-4 whorls)	0.4
kochia ¹ (2-8 leaf)	0.6
round-leaved mallow (1-6 leaf)	0.8
volunteer flax (1-12 cm)	0.6
Weeds Suppressed	Nufarm Fluroxypyr Herbicide Rate (L/ha)
chickweed ¹ (up to 8 cm)	0.8
hempnettle (2-6 leaf)	0.8
stork's-bill (1-8 leaf)	0.6
wild buckwheat (1-4 leaf)	0.8

¹Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

NOTE: Nufarm Fluroxypyr Herbicide 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 DIRECTIONS

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 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. Nufarm Fluroxypyr Herbicide applications are

rainfast within 1 hour after application. Under conditions of low crop and high weed density, control may be reduced.

Preharvest/Grazing Intervals (Nufarm Fluroxypyr Herbicide applied alone)

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

NUFARM FLUROXYPYR HERBICIDE + LIQUID ACHIEVE® SC HERBICIDE OR ACHIEVE LIQUID HERBICIDE OR NUFARM TRALKOXYDIM HERBICIDE OR NUFARM TRALKOXYDIM LIQUID
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Do not apply to oats.

For control of wild oats and green foxtail in spring wheat and spring barley apply 0.5 L/ha of Liquid Achieve SC Herbicide or Achieve Liquid Herbicide or Nufarm Tralkoxydim Herbicide or Nufarm Tralkoxydim Liquid with Nufarm Fluroxypyr Herbicide. Refer to the above table for rates and broadleaved weeds controlled or suppressed with Nufarm Fluroxypyr Herbicide. Read both product labels thoroughly for more information on precautions and additional directions for use. To control additional broadleaved weeds tank-mix with either 2,4-D Ester or MCPA Ester up to a maximum of 560 g a.e./ha (equivalent to 1.0 L/ha of 2,4-D LV 600 or 1.12 L/ha of MCPA LV 500 or 0.93 L/ha of MCPA Ester 600) 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 a.e./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 or Nufarm Tralkoxydim Herbicide or Nufarm Tralkoxydim Liquid. If more than one container of the added herbicide is to be used, add all Achieve Liquid containers prior to adding Nufarm Fluroxypyr Herbicide.
3. Add Nufarm Fluroxypyr Herbicide next. If more than one container of Nufarm Fluroxypyr Herbicide is to be used, add all Nufarm Fluroxypyr Herbicide containers prior to adding any other tank-mix partners.
4. If 2,4-D Ester, MCPA Ester or Curtail M are also being added, add these next. If more than one container of 2,4-D Ester, MCPA Ester or Curtail M is to be used, add all 2,4-D Ester, MCPA Ester or Curtail M containers prior to adding Turbocharge® Adjuvant or Carrier adjuvant.
5. Lastly, add the required amount of Turbocharge Adjuvant or Carrier and then continue to fill tank to desired level with water.

NUFARM FLUROXYPYR HERBICIDE + CURTAIL M HERBICIDE
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For control of a wide spectrum of broadleaved weeds (see following table) in spring wheat, durum wheat spring barley and oats, apply Nufarm Fluroxypyr Herbicide tank mixed with Curtail M Herbicide. Refer to Curtail M Herbicide label for additional precautions and directions for use, particularly crop rotation restrictions.

Mixing Instructions

Add the correct amount of Nufarm Fluroxypyr Herbicide 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 postemergence 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. Do not apply later than the flag-leaf stage.

Rates of Application

I. Low Rate: Weeds Controlled or Suppressed by Nufarm Fluroxypyr Herbicide at 0.6 L/ha + Curtail M Herbicide Tank-Mix at 1.5 L/ha.

Weeds Controlled

Canada thistle (low infestations)	mustard, wild
cleavers (1-8 whorls)	shepherd's-purse
flax, volunteer (1-12 cm)	stinkweed
flixweed (spring seedling 2-4 leaf)	sunflower, volunteer
kochia ³	wild buckwheat (1-8 leaf)
lamb's-quarters	

Weeds Suppressed

stork's-bill (1-8 leaf)

II. High Rate: Weeds Controlled or Suppressed by Nufarm Fluroxypyr Herbicide at 0.8 L/ha + Curtail M Herbicide Tank-Mix at 2.0 L/ha

Weeds Controlled:

Canada thistle ¹	lamb's-quarters	sow-thistle (annual)
canola (volunteer)	redroot pigweed	sow-thistle (perennial) ¹
cleavers (1-4 whorls)	round-leaved mallow (1-6 leaf)	stinkweed
common chickweed ¹	Russian pigweed	stork's-bill (1-8 leaf)
common groundsel	scentless chamomile	sunflower (volunteer)
dandelion ²	shepherd's-purse	tartary buckwheat
flixweed ²	smartweed	volunteer flax (1-12 cm)
hemp-nettle (2-6 leaf stage)		wild buckwheat (1-4 leaf)
kochia ³		wild mustard

¹ Season long control, with some regrowth in the fall (top growth control).

² Spring rosettes only.

³ 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 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 (Nufarm Fluroxypyr Herbicide + 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.

When tank mixing with Curtail M Herbicide, wear goggles or face shield, coveralls and chemically resistant gloves, apron and boots when mixing, loading and during clean-up and repair.

Curtail M Herbicide contains an ingredient that is rapidly absorbed through the skin and respiratory tract.

**NUFARM FLUROXYPYR HERBICIDE + CURTAIL M HERBICIDE
FOR ANNUAL GRASS CONTROL**

Do not apply to oats.

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

Tank-Mix Combinations with Nufarm Fluroxypyr Herbicide (0.6 L/ha) + Curtail M Herbicide (1.5 L/ha) or Nufarm Fluroxypyr Herbicide (0.8 L/ha) + Curtail M Herbicide (2.0 L/ha)

Herbicide Tank-Mix Partner	Crops Registered	Rate of Tank-Mix Partner	Adjuvant Rate	Additional Weeds
Liquid Achieve SC Herbicide ¹ or Achieve Liquid ¹ or Nufarm Tralkoxydim Herbicide ¹ or Nufarm Tralkoxydim Liquid ¹	spring wheat, durum wheat, spring barley	0.5 L/ha	Turbocharge Adjuvant or Carrier 0.5 L/100 L of spray volume (0.5% v/v)	green foxtail wild oats
Horizon [®] 240EC Herbicide or Signal [®] Herbicide	spring wheat, durum wheat	0.23 L/ha	Score [®] Adjuvant 0.8 L/ha (0.8% v/v) or Nufarm Enhance [®] 0.25 L/ha (0.25%v/v)	green foxtail wild oats
Assert [®] 300 SC Herbicide	spring wheat, durum wheat, spring barley	1.3 L/ha 1.6 L/ha	Refer to Assert 300 SC label	wild oats (1-3 leaf) wild oats (4 leaf)
Puma [®] 120 Super Herbicide or Cordon [®]	spring wheat, durum wheat, spring barley	385 mL/ha 770 mL/ha	None required	green foxtail only green foxtail, wild oats & barnyard grass

¹ Curtail M Herbicide can be used at a rate of 1.5 to 2.0 L/ha with this tank-mix combination.

NUFARM FLUROXYPYR HERBICIDE + 2,4-D ESTER HERBICIDE

Do not apply to oats.

For control of a wide spectrum of broadleaved weeds (see following tables) apply Nufarm Fluroxypyr Herbicide tank mixed with 2,4-D Ester Herbicide. Apply postemergence when weeds are in the seedling stage (2-4 leaf) and when spring wheat, durum wheat and spring barley are in the 4-leaf to 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 Application

I. Low Rate: To control the following weeds apply a uniform spray containing 0.45 L/ha Nufarm Fluroxypyr Herbicide and 420 g a.e./ha 2,4-D Ester Herbicide in a minimum of 100 L of water per hectare to thoroughly cover the weeds.

Weeds Controlled:

bluebur	hoary cress ¹	stinkweed
burdock	kochia ³	sunflower (annual)
canola (volunteer)	lamb's-quarters	vetch
cleavers (1-4 whorls)	mustards (except green, dog & tansy)	wild radish
clovers (sweet)	plantain	wild buckwheat (1-4 leaf)
cocklebur	prickly lettuce	wild mustard
flixweed	ragweed	
field horsetail ¹	shepherd's-purse	
goat's-beard		

II. High Rate: To control the above weeds plus the additional weeds listed below, apply a uniform spray containing 0.6 L/ha of Nufarm Fluroxypyr Herbicide and 560 g a.e./ha of 2,4-D Ester Herbicide in a minimum of 100 L of water per hectare to thoroughly cover the weeds.

Additional Weeds Controlled:

blue lettuce ¹	hairy galinsoga	Russian thistle
dandelion ²	hedge bindweed	smartweed
docks	lady's-thumb	stork's-bill (1-8 leaf)
dog mustard	leafy spurge ¹	tansy mustard
field bindweed ¹	oak-leaved goosefoot	tartary buckwheat
field peppergrass	redroot pigweed	volunteer flax (1-12 cm)
gumweed	round-leaved mallow (1-6 Leaf)	wild buckwheat (1-4 leaf)

Weeds Suppressed:

common chickweed ³ (up to 8 cm)	hemp-nettle (2-6 leaf stage)	sow-thistle (perennial) ¹
Canada thistle ¹	sow-thistle (annual)	

¹ Top growth control only.

² Spring rosettes.

³ Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

NOTE: The activity of Nufarm Fluroxypyr Herbicide 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 Nufarm Fluroxypyr Herbicide 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 (Nufarm Fluroxypyr Herbicide + 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.

NUFARM FLUROXYPYR HERBICIDE + 2,4-D ESTER HERBICIDE + OTHER HERBICIDES

Do not apply to oats.

Tank mixtures of Nufarm Fluroxypyr Herbicide + 2,4-D Ester Herbicide with other herbicides will provide control of additional weeds. For products which may be tank mixed with Nufarm Fluroxypyr Herbicide + 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 Nufarm Fluroxypyr Herbicide and tank-mix partner labels.

Tank-Mix Combinations with:

**Nufarm Fluroxypyr Herbicide (0.6 L/ha) + 2,4-D Ester Herbicide (560 g a.e./ha) or
Nufarm Fluroxypyr Herbicide (0.45 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 ^{1,3} or Achieve Liquid ^{1,3} or Nufarm Tralkoxydim Herbicide ^{1,3} or Nufarm Tralkoxydim Liquid ^{1,3}	spring wheat, durum wheat, spring barley	0.5 L/ha	Turbocharge Adjuvant or Carrier 0.5 L/100 L of spray volume (0.5% v/v)	green foxtail wild oats
Horizon 240EC Herbicide or Signal Herbicide	spring wheat, durum wheat	0.23 L/ha 0.29 L/ha	Score Adjuvant: 0.8 L/ha (0.8% v/v) or Nufarm Enhance 0.25 L/ha (0.25%v/v) Score Adjuvant: 1.0 L/ha (1.0% v/v) or Nufarm Enhance 0.32 L/ha (0.32%v/v)	wild oats ² (1-6 leaf main stem) green foxtail (1-5 leaf main stem) & wild oats ²

Assert 300 SC Herbicide	spring wheat, durum wheat, spring barley	1.3 L/ha	Refer to Assert 300 SC label	wild oats (1-3 leaf stage)
		1.6 L/ha		wild oats (4 leaf stage)
Puma120 Super Herbicide or Cordon	spring wheat, durum wheat	385 mL/ha	None required	green foxtail only
		770 mL/ha		green foxtail, plus wild oats & barnyard grass
Everest® Solupak® 70 DF	spring wheat, durum wheat	43 g/ha	Refer to Everest Solupak 70 DF label	green foxtail wild oats

¹Do not apply this tank-mix prior to the 4 leaf stage of the cereal crop as temporary crop injury could occur. 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 or Nufarm Tralkoxydim Herbicide or Nufarm Tralkoxydim Liquid alone.

² Wild oat control may be reduced when tank mixed with Nufarm Fluroxypyr Herbicide+2,4-D Ester Herbicide.

³ 2,4-D Ester can be tank mixed at rates up to a maximum of 560 g a.e./ha with this tank-mix combination.

NUFARM FLUROXYPYR HERBICIDE + 2,4-D ESTER HERBICIDE + REFINE® EXTRA 75 DF HERBICIDE OR REFINE EXTRA 75 TOSS-N-GO HERBICIDE OR REFINE SG HERBICIDE OR REFINE SG TOSS-N-GO HERBICIDE OR NUFARM BOOST® HERBICIDE

**Spring Wheat (excluding durum) and spring barley
Do not apply to oats.**

For control of a wide spectrum of broadleaf weeds, including cleavers, Nufarm Fluroxypyr Herbicide may be tank mixed with 2,4-D Ester Herbicide and Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide or Refine SG Herbicide or Refine SG Toss-N-Go Herbicide or Nufarm Boost Herbicide. Apply Nufarm Fluroxypyr Herbicide at 0.3 L/ha tank mixed with with Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide or Nufarm Boost Herbicide at 20 g/ha, or Refine SG Herbicide or Refine SG Toss-N-Go 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 Ester LV 600 or 0.42 L/ha of 2,4-D Ester LV 700) and a non-ionic surfactant (Agral® 90, or Citowett® Plus) at 2 L per 1000 L of spray solution. A spray volume of 100 L/ha should be utilized. Apply postemergence 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.**

Weeds Controlled or Suppressed

Weeds Controlled:

annual smartweed (green smartweed, lady's thumb)	groundsel (common)	shepherd's-purse
ball mustard	hemp-nettle	stinkweed
chickweed (1-6 leaf) ¹	kochia ³	tartary buckwheat
cleavers ²	lamb's-quarters	volunteer rapeseed ⁴
corn spurry	narrow-leaved hawk's-beard	volunteer sunflower
cow cockle	redroot pigweed	wild buckwheat ⁵
flixweed	Russian thistle	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 Refine Extra 75 DF Herbicide, Refine Extra 75 Toss-N-Go Herbicide, Refine SG Herbicide or Refine SG Toss-N-Go Herbicide or Nufarm Boost Herbicide and continue to agitate for a minimum of 5 minutes to ensure the Refine Extra 75 DF Herbicide, Refine Extra 75 Toss-N-Go Herbicide, Refine SG Herbicide or Refine SG Toss-N-Go Herbicide or Nufarm Boost Herbicide is completely dissolved. After it is fully dissolved add the Nufarm Fluroxypyr Herbicide 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

- 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.

NUFARM FLUROXYPYR HERBICIDE + MCPA LV 500 HERBICIDE OR MCPA ESTER 600 HERBICIDE

For control of a wide spectrum of broadleaved weeds (see following table) apply Nufarm Fluroxypyr Herbicide at 0.6 L/ha tank mixed with MCPA LV 500 Herbicide at 1.12 L/ha or MCPA Ester 600 Herbicide at 0.93 L/ha. Apply postemergence 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. 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 Nufarm Fluroxypyr Herbicide to spray tank 1/2 filled with water and agitate. Add the correct amount of MCPA LV 500 Herbicide or MCPA Ester 600 Herbicide and continue to agitate.

Weeds Controlled or Suppressed by Nufarm Fluroxypyr Herbicide + MCPA LV 500 Herbicide or MCPA Ester 600 Herbicide Tank-Mix

Weeds Controlled:

burdock, common	hempnettle (2-6 leaf)	ragweed, common
canola, volunteer	kochia ¹	shepherd's-purse
cleavers (1-4 whorls)	lamb's-quarters	stinkweed
cocklebur	mustard (except dog & green tansy)	sunflower, annual
flax, volunteer (1-12 cm)	pigweed, redroot (1-4 leaf)	vetch
flixweed	prickly lettuce	wild radish

Weeds Suppressed:

green smartweed	wild buckwheat (1-4 leaf)
stork's-bill (1-8 leaf)	

¹ Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

Pre-Harvest/Grazing Intervals (Nufarm Fluroxypyr Herbicide + MCPA LV 500 Herbicide or MCPA Ester 600 Herbicide)

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

NUFARM FLUROXYPYR HERBICIDE + MCPA LV 500 HERBICIDE or MCPA ESTER 600 HERBICIDE + OTHER HERBICIDES

Do not apply to oats.

Tank mixtures of Nufarm Fluroxypyr Herbicide + MCPA LV 500 Herbicide or MCPA Ester 600 Herbicide with other herbicides will provide control of additional weeds. For products which may be tank mixed with Nufarm Fluroxypyr Herbicide + MCPA LV 500 Herbicide or MCPA Ester 600 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 Nufarm Fluroxypyr Herbicide and tank-mix partner labels.

Tank-Mix Combinations with Nufarm Fluroxypyr Herbicide (0.6 L/ha) + MCPA LV 500 Herbicide (1.12 L/ha) or MCPA Ester 600 Herbicide (0.93 L/ha)

Herbicide Tank-Mix Partner	Crops Registered	Rate/ha	Adjuvant Rate	Additional Weeds
Liquid Achieve SC Herbicide ¹ or Achieve Liquid ¹ or Nufarm Tralkoxydim Herbicide ¹ or Nufarm Tralkoxydim Liquid ¹	spring wheat, durum wheat, spring barley	0.5 L/ha	Turbocharge Adjuvant or Carrier 0.5 L/ha (0.5% v/v)	green foxtail wild oats
Horizon 240EC Herbicide or Signal Herbicide	spring wheat, durum wheat	0.23 L	Score Adjuvant 0.8 L/ha (0.8% v/v) or Nufarm Enhance 0.25 L/ha (0.25%v/v)	wild oats
Assert 300 SC	spring wheat, durum wheat, spring barley	1.3 L 1.6 L	Refer to Assert 300 SC label	wild oats (1-3 leaf) wild oats (4 leaf)
Puma ¹²⁰ Super Herbicide or Cordon	spring wheat, durum wheat, spring barley	0.77 L	None required	wild oats

¹ MCPA Ester can be tank mixed at rates up to a maximum of 560 g a.e./ha with this tank-mix combination.

NUFARM FLUROXYPYR HERBICIDE + REFINE EXTRA 75 DF HERBICIDE OR REFINE EXTRA 75 TOSS-N-GO HERBICIDE OR REFINE SG HERBICIDE OR REFINE SG TOSS-N-GO HERBICIDE OR NUFARM BOOST HERBICIDE

For control of a wide spectrum of broadleaved weeds (see following table) Nufarm Fluroxypyr Herbicide can be tank mixed with Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide or Refine SG Herbicide or Refine SG Toss-N-Go Herbicide or Nufarm Boost 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, durum wheat and spring barley from the 2-leaf crop growth stage up to and including initiation of stem elongation. The tank-mix of Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide or Refine SG Herbicide or Refine SG Toss-N-Go Herbicide or Nufarm Boost Herbicide with Nufarm Fluroxypyr Herbicide allows for the control of Group 2 resistant cleavers at 0.4 L/ha and kochia 0.6 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 0.4 to 0.8 litres of Nufarm Fluroxypyr Herbicide with 20 g/ha Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide or Nufarm Boost Herbicide, or 30 g/ha of Refine SG Herbicide or Refine SG Toss-N-Go Herbicide and 2 litres per 1000 L spray solution of non-ionic surfactant (Agral 90, or Citowett Plus) with a spray volume of 100 L/ha.

Weeds Controlled or Suppressed

Weeds Controlled at 0.4 L/ha of Nufarm Fluroxypyr Herbicide and 20g/ha Refine Extra 75DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide or Nufarm Boost Herbicide, or 30 g/ha Refine SG Herbicide or Refine SG Toss-N-Go Herbicide:

annual smartweed (green smartweed, lady's thumb)	groundsel (common)	shepherd's purse
ball mustard	hemp-nettle	stinkweed
chickweed ¹ (1-6 leaf)	kochia ²	tartary buckwheat
cleavers (1-4 whorls)	lamb's-quarters	volunteer rapeseed ³
corn spurry	narrow-leaved hawk's beard	volunteer sunflower
cow cockle	redroot pigweed	wild buckwheat ⁴
flixweed	Russian thistle	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 0.4 L/ha Nufarm Fluroxypyr Herbicide and 20 g/ha Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide or Nufarm Boost Herbicide, or 30 g/ha of Refine SG Herbicide or Refine SG Toss-N-Go Herbicide:

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

⁵ Apply when most of the thistles have emerged and are actively growing. For best top growth control, apply before bud stage when thistles are no larger than 15 cm in height and before crop canopy prevents thorough coverage of weeds. Top growth of 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 0.6 L/ha of Nufarm Fluroxypyr Herbicide and 20 g/ha Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide or Nufarm Boost Herbicide, or 30 g/ha of Refine SG Herbicide or Refine SG Toss-N-Go Herbicide:

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

Additional Weeds Controlled and Suppressed at 0.8 L/ha Nufarm Fluroxypyr Herbicide and 20 g/ha Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide or Nufarm Boost Herbicide, or 30 g/ha of Refine SG Herbicide or Refine SG Toss-N-Go 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 Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide or Refine SG Herbicide or Refine SG Toss-N-Go Herbicide or Nufarm Boost Herbicide and continue to agitate for a minimum of 5 minutes to ensure that Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide or Refine SG Herbicide or Refine SG Toss-N-Go Herbicide or Nufarm Boost Herbicide is completely dissolved. Add the required amount of Nufarm Fluroxypyr Herbicide 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

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS: the DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than Nufarm Agriculture Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Nufarm Agriculture Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop(s) listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Nufarm Agriculture Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use(s) described below.

DIRECTIONS FOR USE

SEEDLING AND ESTABLISHED TALL FESCUE GROWN FOR SEED: Make one application per year, as a ground application only, for control of labelled weeds. Apply from the 4 leaf stage to flag leaf stage in a minimum of 100L water/ha. Do not harvest for forage or do not cut hay for forage.

Application rates (Apply as a tank-mix only): Nufarm Fluroxypyr Herbicide: 0.6 L/ha; 2,4-D Ester Herbicide: 560 g a.e. /ha

CONTROL OF LABELLED WEEDS IN SEEDLING AND ESTABLISHED FORAGE GRASSES GROWN FOR SEED IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION OF BRITISH COLUMBIA ONLY:

Creeping Red Fescue
Intermediate Wheat Grass
Crested Wheat Grass
Meadow Brome Grass
Smooth Brome Grass
Timothy

Apply one application per year in a spray volume of 100-200 L/ha to control labelled weeds in seedling (4 leaf to flag leaf) or established forage grasses. Application should be made

postemergence when weeds are in the 2-4 leaf stage. Apply in a broadcast spray using a hydraulic boom ground sprayer.

Application rates (Apply as a tank-mix only): Nufarm Fluroxypyr Herbicide: 0.6 L/ha; 2,4-D Ester Herbicide: 560 g a.e./ha

Do not harvest for forage or do not cut hay for forage.
Do not harvest treated crop within 60 days after application.

Refer to the main Nufarm Fluroxypyr Herbicide and 2,4-D Ester Herbicide labels for additional details and instructions, including preharvest intervals, before using.

READ THE ROTATIONAL CROPPING RESTRICTIONS ON THE FULL LABELS BEFORE USING THIS PRODUCT.

LABELLED ANNUAL AND PERENNIAL BROADLEAVED WEEDS IN CANARY SEED:

For the control of labelled annual and perennial broadleaved weeds in canary seed, apply Nufarm Fluroxypyr Herbicide at a rate of 0.6 L/ha and Nufarm MCPA Ester 600 Liquid Herbicide at 0.93 L/ha in a minimum of 100 L of water to thoroughly cover the weeds with a spray pressure of 200 to 275 kPa. Apply when weeds are in the seedling stage (2-4 leaf) and when canary seed is in the 3-leaf stage up to just before the flag leaf emergence stage. Apply using a ground boom sprayer, and apply only one post-emergent application per season. Do NOT apply within 60 days of harvest. For use in the Prairie Provinces and the Peace River regions ONLY of British Columbia.

LABELLED WEEDS IN SOFT WHITE WINTER WHEAT, SOFT RED WINTER WHEAT AND HARD RED WINTER WHEAT IN ONTARIO ONLY:

For the control of labeled weeds including cleavers, apply Nufarm Fluroxypyr Herbicide at 0.6L/ha and Nufarm MCPA Ester 600 Liquid Herbicide at 0.93 L/ha to winter wheat in the three tiller to flag leaf stage (in the spring) in 100 litres of water per hectare. Do not apply to cereals underseeded with a legume.

Do not apply within 60 days of harvest. Apply only one post-emergent application per year.

REFER TO MAIN NUFARM FLUROXYPYR HERBICIDE AND NUFARM MCPA ESTER 600 LIQUID HERBICIDE LABELS FOR ADDITIONAL DETAILS AND INSTRUCTIONS.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Nufarm Fluroxypyr Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Nufarm Fluroxypyr Herbicide 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 Nufarm Fluroxypyr Herbicide 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 Nufarm Agriculture Inc. at 1-800-868-5444 or at www.nufarm.ca.

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.

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2017-2230

2,4-D Ester 700

Liquid Herbicide

COMMERCIAL

GROUP

4

HERBICIDE

DANGER



POISON

POTENTIAL SKIN SENSITIZER
WARNING – SKIN IRRITANT

Nufarm Agriculture Inc.
5507 1st Street SE
Calgary, Alberta T2H 1H9
1-800-868-5444

24 Hour Emergency Response Number
1-800-424-9300

**CONTAINS 2,4-D
EMULSIFIABLE CONCENTRATE**

GUARANTEE:

2,4-D, present as the 2-ethylhexyl ester
... 660 g a.e./L

**READ THE LABEL AND ATTACHED
BOOKLET BEFORE USING**

For use in wheat, barley, rye, field corn,
soybeans, pastures and non-crop land.

REGISTRATION NO. 27820
PEST CONTROL PRODUCTS ACT



PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

Fatal or poisonous if swallowed. Potential skin sensitizer. Causes skin irritation. DO NOT get on skin. Avoid contact with skin, eyes and clothing. Wash concentrate from skin or eyes IMMEDIATELY. After use, wash hands and other exposed skin. Avoid breathing spray mist.

ENVIRONMENTAL HAZARDS:

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Toxic to small mammals, birds, aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. This product will harm other broadleaved plants in the vicinity of the treatment area. If applying this product using a mechanically pressurized handgun or backpack sprayer, do not directly spray or allow the spray to drift onto ornamentals or gardens. Do not spray exposed roots of trees and ornamentals.

Leaching: The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

Runoff: To reduce runoff from treated areas into aquatic habitats avoid application to areas with moderate to steep slope, compacted soil, or clay. Avoid application of this product when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a strip of untreated vegetation between the treated area and the edge of the water body. To prevent runoff, avoid spraying on driveways, sidewalks or other hard surfaces. Do not irrigate within 24 hours after application.

PROTECTIVE CLOTHING AND EQUIPMENT:

Handling the concentrate (mixing and loading): Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Rinse gloves before removal.

Handling the dilute spray solution (during application or repairing or cleaning equipment): Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Rinse gloves before removal.

When handling more than 401 L of Nufarm 2,4-D Ester 700 Liquid Herbicide per day, workers must also use a closed system. Gloves are not required during application when applicator is in an enclosed tractor or an enclosed airplane cockpit.

Mixers/loaders/applicators using mechanically pressurized handguns must wear a respirator if they will be handling more than 7.5 L per day. DO NOT handle more than 12 L per day.

OPERATOR USE PRECAUTIONS:

- Wear freshly laundered clothing and clean protective equipment daily.
- Rinse gloves before removal.
- Wash hands before eating, drinking, using tobacco or using the toilet.
- If herbicide penetrates clothing remove immediately; then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

- After using this product, remove clothing and launder separately and promptly, and thoroughly wash hands and exposed skin with soap and water. Follow manufacturer's instructions for cleaning personal protective clothing and equipment. If no such instructions for washables are provided, use detergent and hot water. Keep and wash personal protective equipment separate from household laundry.
- After work, remove all clothing and shower using soap and water.

FIRST AID:

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 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.

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.

Take container, label or product name and Pest Control Product Registration Number with you, when seeking medical attention.

TOXICOLOGICAL INFORMATION:

DO NOT induce vomiting. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. No specific antidote. Employ supportive care. This product may cause mild irritation to the eyes. Overexposure to 2,4-D may cause coughing, burning, dizziness or temporary loss of muscle coordination. Other possible effects of overexposure include fatigue, muscle weakness or nausea. Treatment should be based on judgement of the physician in response to reactions of the patient. Treat symptomatically.

EMERGENCY TELEPHONE NUMBERS:

For spills or transportation accidents, Chemtrec, 1-800-424-9300.

For health or environmental emergencies, Prosar, 1-877-325-1840.

For product and use information, Nufarm Agriculture Inc., 1-800-868-5444.

STORAGE CONDITIONS:

Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. May be stored at any temperature. SHAKE WELL BEFORE USING.

DISPOSAL:**For 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 requirements.

For Returnable Containers:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For Returnable-Refillable Containers:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up 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. The user assumes the risk to persons or property that arises from any such use of this product.

DIRECTIONS FOR USE:

DO NOT apply this product directly to freshwater habitats such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands, estuaries or marine habitats.

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

RESISTANCE-MANAGEMENT RECOMMENDATIONS:

For resistance management, Nufarm 2,4-D Ester 700 Liquid Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Nufarm 2,4-D Ester 700 Liquid Herbicide 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 Nufarm 2,4-D Ester 700 Liquid Herbicide 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 Nufarm Agriculture Inc. at 1-800-868-5444 or at www.nufarm.ca.

GENERAL USE PRECAUTIONS:

Nufarm 2,4-D Ester 700 Liquid Herbicide may cause damage to susceptible crop, ornamental, and other plants, even in minute quantities. Avoid spray drift to any desirable vegetation. Coarse sprays are less likely to drift. Do not spray during periods of high winds. Do not permit lactating dairy animals to graze fields within 7 days after application. Do not graze or cut treated crops for forage until 30 days after application. Withdraw meat animals from treated fields at least 3 days before slaughter.

MIXING:

Shake well before using. To ensure even mixing, half fill the sprayer tank with clean water, add the required amount of Nufarm 2,4-D Ester 700 Liquid Herbicide and agitate thoroughly. Add the remainder of the water and agitate before spraying. If the spray solution has been left standing, agitate thoroughly before use. Wash sprayer thoroughly after use. For containers larger than 20L: Use a transfer system that avoids open pouring when transferring the liquid concentrate from such containers into the spray tank.

EQUIPMENT AND SPRAY VOLUME:

Field Sprayer Application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification.

Boom height must be 60 cm or less above the crop or ground. Apply in 50 to 200 litres of water per hectare by ground equipment unless otherwise indicated. Higher water volumes will reduce the risk of crop injury.

Aerial Application: DO NOT apply during periods of dead calm. 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 spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan. Apply in a minimum of 30 litres of water per hectare by aerial equipment.

Knapsack, Spot Treatment Applications: Mix 200 mL of product in 10 L water. Spray to wet all foliage thoroughly.

TANK MIXES:

Nufarm 2,4-D Ester 700 Liquid Herbicide may be recommended in tank mix with other products. Consult the label of the tank mix partner product, and follow the most stringent set of precautions, restrictions and directions for use.

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Nufarm Agriculture Inc. at 1-800-868-5444 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Nufarm Agriculture Inc.

CROPS, TIMING, RATES AND METHODS OF APPLICATION:

Use the dose required to control the weeds present. To minimize the risk of crop injury, do not exceed the recommended rate listed for the crop. Higher rates may be required to control certain weed species. Rates above those recommended for a crop may result in significant crop injury, and should only be used when the risk of crop injury will be offset by the benefits of enhanced weed control. Apply in warm weather when the crop and weeds are growing well, and the weeds are at a susceptible stage. Avoid application during drought conditions or during exceptionally hot weather.

CROP: Spring Cereals (Wheat, Barley, Rye), not underseeded with legumes.

APPLICATION TIME AND RATE:

Prior to seeding or after seeding but prior to crop emergence:

When weeds are less than 8 cm tall and actively growing, 0.5 to 0.8 L/ha.

If weeds are larger than 8 cm, or for harder-to-control weeds, up to 1.1 L/ha.

After crop emergence:

From the 4-leaf expanded to the early flag-leaf (shot blade) stage, up to 1.1 L/ha.

METHOD: Ground or Aerial application.

MAXIMUM RATE PER HECTARE PER YEAR: 1.3 L.

CROP: Winter Cereals (Winter Wheat, Fall Rye)

APPLICATION TIME AND RATE:

Prior to seeding or after seeding but prior to crop emergence:

When weeds are less than 8 cm tall and actively growing, 0.5 to 0.8 L/ha.

If weeds are larger than 8 cm, or for harder-to-control weeds, up to 1.1 L/ha.

After crop emergence:

In spring, from full tillering to the shot blade stage, up to 0.8 L/ha.

Do not apply during and after the flag-leaf stage.

Do not apply to seedling winter cereals in the fall.

METHOD: Ground or Aerial application.

MAXIMUM RATE PER HECTARE PER YEAR: 1.3 L.

CROP: Field Corn

APPLICATION TIME: As an overall spray, before the corn is 15 cm tall (leaf extended) and/or before the 6-leaf stage. Application as an overall spray at later stages will damage the corn.

For later applications (corn 15-75 cm, leaf extended), use a shielded spray or a directed spray with drop pipes. Keep spray off corn foliage.

Do not apply within 2 weeks of silking and tasselling.

Avoid cultivation for 2 weeks following spraying.

Use at least 100 L/ha water.

Do not add oil or surfactant.

Do not apply more than one treatment per year.

METHOD: Ground or Aerial application.

RECOMMENDED RATE PER HECTARE: Up to 0.8 L.

CROP: Established Grasses Grown for Forage and Seed Production

APPLICATION TIME: In spring, up to the shot blade stage of the grass, or in fall, after harvest.

Application during flower development or pollination will reduce seed yield.

Use at least 100 L/ha water.

Do not apply more than two treatments per year.

METHOD: Ground or Aerial application.

RECOMMENDED RATE PER HECTARE: Up to 0.8 L (crops for seed production)
Up to 1.6 L (hay or pasture crops)

CROP: Established Pasture and Rangeland (without legumes)

APPLICATION TIME: Apply at a time of rapid growth, usually May, June and/or September.

Apply after pasture has been grazed or cut and weed growth has resumed.

Spray thoroughly using 100 to 300 litres of water per hectare. A second treatment may be required to control perennial weeds.

Do not apply in freshly seeded grasses and pastures until well established.

Under conditions of good growth and adequate soil moisture, sprays can be applied up to 2 weeks before normal frost time. Do not apply more than two treatments per year.

METHOD: Ground or Aerial application.

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RECOMMENDED RATE**PER HECTARE:** Up to 3.4 L.

NON-CROP USES: Stubble Land, Uncropped Land (i.e., roadsides, rights-of-way for transportation, rights-of-way for utility lines, airports, wastelands and industrial parks)**APPLICATION TIME:** Apply at a time of rapid growth, usually May, June and/or September.
Spray thoroughly using 100 to 300 litres of water per hectare. A second treatment may be required to control perennial weeds.
Do not apply more than two treatments per year.
Cultivating grain stubble and spraying after regrowth may aid in control.
Under conditions of good growth and adequate soil moisture, sprays can be applied up to 2 weeks before normal frost time. When using mechanically pressurized handguns, do not expose to more than 7.5 L of Nufarm 2,4-D Ester 700 Liquid Herbicide/day/person without a respirator or 12 L/day/person with a respirator.**METHOD:** Ground or Aerial application (stubble land and uncropped land).
Ground application (roadsides, airports).**RECOMMENDED RATE****PER HECTARE:** Up to 3.4 L.

TURF USES: Sod farms, and golf courses (roughs and fairways).
Use adequate buffer zones as specified to protect sensitive non-target vegetation.**APPLICATION INFORMATION:**

This product is only effective when applied to the leaves of actively growing weeds. This product will not prevent new weeds - apply only when weeds are present.

Apply at a time of rapid growth, usually May, June and/or September, before grasses are in the flag-leaf (shot blade) stage.

If weed populations do not warrant a broadcast application (e.g., entire lawn), consider spot treatments that target only weedy areas.

Applications while plants are under stress, such as during hot, cold or drought conditions, will increase risk of damage to turf and can result in reduced weed control.

Avoid mowing for several days before and after treatment. Use caution when spraying near sensitive desirable vegetation.

Do not use on bentgrass or newly seeded areas.

DO NOT apply to the exposed roots of trees and ornamentals.

Do not apply if rainfall is expected, or irrigate, within 24 hours or during hot, dry periods.

Do not allow people (other than the applicator) or pets onto the treatment area during application.

Do not enter treated areas until spray has thoroughly dried.

METHOD:

Ground application only. DO NOT apply by air.

Spray thoroughly using 100 to 300 litres of water per hectare.

Field Sprayer Application:

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification.

MAXIMUM APPLICATION

FREQUENCY:

DO NOT apply more than two broadcast applications per season. This does not include spot treatments.

RECOMMENDED RATE

PER HECTARE:

Up to 1.9 L at each application.

Up to 3.8 L per year, total.

CONTROL OF WOODY GROWTH IN NON-GRAZED AREAS:

Apply at time of rapid growth, usually May, June and/or September.

Apply 3.25 to 6.78 litres of product, by ground in 1000 to 3000 litres of water per hectare.

For aerial applications use 55 to 165 litres of spray solution per hectare.

For oil water carrier, use 15 litres of oil mixed in 40 litres of water with continuous agitation.

Use the lower rate for species that are more susceptible such as chokecherry, western snowberry and willow.

Spray brush species up to 3 metres tall after foliage is well developed.

Applications soon after leaves are fully open usually give the best results.

Apply sufficient spray volume to thoroughly wet all plant parts to the ground line.

Brush or trees above 3 metres tall should be cut close to the ground and sprayed when the regrowth is over 0.6 m tall.

With good growing conditions and adequate soil moisture, sprays may be applied up to 2 to 3 weeks before normal frost time.

To reduce potential drift hazard, a drift control agent may be added. Follow directions on the drift control agent label for the correct mixing sequence.

Ground or aerial application.

Do not apply more than two treatments per year.

When using mechanically pressurized handguns, do not expose to more than 7.5 L of Nufarm 2,4-D Ester 700 Liquid Herbicide/day/person without a respirator or 12 L/day/person with a respirator.

BASAL BARK AND STUMP TREATMENT:

Controls hard-to-kill woody brush and young trees.

The solution can be applied to the basal part of standing brush and young trees during any time of the year, prior to formation of corky bark.

To prevent regrowth treat stumps immediately after cutting by spraying or painting stumps, exposed roots and cut surface.

Thorough drenching is essential.

Mix 2.5 L in 100 L of fuel oil. Spray to run-off.

When using mechanically pressurized handguns, do not expose to more than 7.5 L of Nufarm 2,4-D Ester 700 Liquid Herbicide/day/person without a respirator or 12 L/day/person with a respirator.

WEEDS CONTROLLED:

Susceptible Weeds:

Annual sow-thistle, Bluebur (before the 4-leaf stage), Burdock (before the 4-leaf stage), Cocklebur, Daisy fleabane, False flax, False ragweed, Flixweed, Giant ragweed, Goat's-beard, Kochia, Lamb's-quarters, Mustards (except Dog and Tansy), Narrow-leaved hawk's-beard (in fall, and at the 1- to 2-leaf stage in spring), Plantain, Prickly lettuce, Ragweeds, Redroot pigweed, Russian pigweed, Russian-thistle, Shepherd's-purse, Stinging nettle, Stinkweed, Sweet Clover (seedling), Thyme-leaved spurge, Volunteer canola, Wild radish, Wild (prairie) sunflower

Rates to Control Susceptible Weeds:

Small seedlings (2- to 4-leaf), growing rapidly, good growing conditions: 0.5 to 0.8 L/ha.

Large weeds, dry or cold weather, heavy infestations: 0.8 L/ha.

Resistance increases with age.

Harder-To-Control Weeds:

Curled dock (apply before 4-leaf stage), Dog mustard, Field pepper-grass, Flixweed (if treated before bolting in spring), Groundsel, Hairy galinsoga, Hawkweed, Heal-all, Knotweed (apply before the 4-leaf stage), Narrow-leaved hawk's-beard (if treated before bolting in spring), Oak-leaved goosefoot, Pineappleweed, Prostrate pigweed, Purslane, Sheep sorrel, Tansy mustard, Tumble pigweed, Velvetleaf.

Rates for Harder-To-Control Weeds:

Small seedlings (2- to 4-leaf), growing rapidly, good growing conditions: 0.9 to 1.3 L/ha.

Large weeds, dry or cold weather, heavy infestations: 1.3 L/ha.

Resistance increases with age.

Very-Hard-to-Control Weeds – Only Top Growth Control Can Be Expected:

Biennial wormwood, Blue lettuce, Bull thistle, Burdock, Buttercup, Canada thistle, Chicory, Curled dock, Dandelion, Field bindweed, Field chickweed*, Field horsetail*, Gumweed, Hedge bindweed, Hemp-nettle* (if treated before the 4-leaf stage), Hoary cress, Lady's-thumb*, Leafy spurge, Mouse-eared chickweed*, Perennial sow-thistle, Russian knapweed, Scentless mayweed, Smartweed*, Tartary buckwheat, Teasel, Volunteer sunflower, Wild buckwheat*, Yellow rocket (controlled with applications before 4-leaf stage).

* Use highest listed rate for suppression.

Rates for Top Growth Control of Very-Hard-To-Control Weeds:

Small seedlings (2- to 4-leaf), growing rapidly, good growing conditions: 1.1 to 1.3 L/ha.

Large weeds, dry or cold weather, heavy infestations: 1.3 L/ha.

Resistance increases with age.

CONTROL OF GIANT RAGWEED IN SOYBEAN**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:**

The DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than Nufarm Agriculture Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion Program. Nufarm Agriculture Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop(s) listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Nufarm Agriculture Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use described below.

DIRECTIONS:

Crop: Soybeans

Pest: Giant ragweed

Application Time: Pre-emergent to soybean (applied a minimum of 7 days before planting)

Post-emergent to giant ragweed

Method: Ground application

Recommended Rate per Hectare: 0.5 – 0.8 L/ha

USE PRECAUTION:

Do not use in sandy soils with less than 1% organic matter. Plant soybean seeds as deep as possible, but not less than 2.5 cm. Adjust planter to ensure adequate coverage of planted seed.

Do not graze or cut treated crops for forage or hay until 67 days after application.

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

Spray Volume: 50 – 200 L/ha
Number of Applications: One per season
Pre-Harvest Interval (PHI): 90 days

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. The user assumes the risk to persons or property that arises from any such use of this product.

**RESTRICTED USE:
FOREST AND WOODLAND MANAGEMENT
NATURE OF RESTRICTION:**

This product is to be used only in the manner authorized. Consult local pesticide regulatory authorities about use permits that may be required.

CONIFER RELEASE - AERIAL APPLICATION:

To control undesirable hardwood species in stands of fir, hemlock, spruce and pine regeneration apply Nufarm 2,4-D Ester 700 Liquid Herbicide at 3.63 to 4.7 L/ha in 30 to 80 L/ha of total spray mixture. Use water or an "oil-water"* mixture. Never allow any water or mixture containing water to get into the Nufarm 2,4-D Ester 700 Liquid Herbicide or the oil spray premix. Note: Nufarm 2,4-D Ester 700 Liquid Herbicide in water or oil-water sprays forms an emulsion, not a solution, and separation may take place unless sprays are agitated continuously until used up. Mechanical agitation is recommended.

To prevent conifer damage, delay spraying until all new conifer growth has hardened off, when the terminal buds feel sharp to touch.

Caution should be taken to ensure that the conifer is not in a second phase of active or "lammas" growth in late summer. Hardwoods should not have commenced fall colouration. Control of heavy suckering species such as maple, trembling aspen and balsam poplar may only be partial. Raspberries will not be controlled and may if present proliferate following removal of the hardwood overstory.

FOREST SITE PREPARATION - AERIAL APPLICATION:

To control mixed hardwood species on sites to be planted to conifers, use 4.7 to 6.78 litres of Nufarm 2,4-D Ester 700 Liquid Herbicide in 30 to 100 litres of total spray mixture per hectare. Apply as a uniform spray when the foliage is well developed and the brush is actively growing. Under conditions of good growth and high soil moisture, sprays can be used 2 to 3 weeks before normal frost time. Do not apply more than two treatments per year. For best results use a 10% oil-water* mixture.

NOTE: When preparing sites for planting do not plant conifers before spraying as the conifers present at the time of spraying may be injured or killed. To reduce potential drift hazard on non-crop locations, a drift control agent may be added. Follow all directions on the drift control agent label for the correct mixing sequence.

* To prepare the "oil-water" mixture add the Nufarm 2,4-D Ester 700 Liquid Herbicide to the oil in a separate container. With vigorous agitation 1 litre of Nufarm 2,4-D Ester 700 Liquid Herbicide will emulsify up to 10 litres of oil in 100 litres of spray mixture. Start running the water into the empty spray tank, then slowly add the premix with continuous agitation. All the premix should be in the tank by the time 1/3 of the water is in. If the premix is put in the tank without any water, the first water added may form a thick "invert" (water in oil) emulsion which will be hard to break.

USE PRECAUTIONS:

With aircraft, uniform coverage can be obtained and drift minimized by using 235 kPa spray pressure or less at the nozzle, by using nozzles directed straight back, by using a spray boom no larger than 3/4 the wing span of the aircraft and by spraying when wind velocity is less than 8 km/h.

BEFORE AERIAL APPLICATION TO FORESTS consult the most recent provincially approved topographic maps of the area to be treated (1:50 000) or more up-to-date information (e.g. GPS systems) to identify sensitive aquatic habitats. Sensitive aquatic habitats include:(a) All running and standing water bodies, including impoundments, beaver pond sand bog ponds, that appear on the map or GPS system;(b) Running and standing water bodies that do not appear on the map or GPS system, but are visible from the air.

Generic Aerial Application Label Instructions

Directions for Use

Apply only by fixed-wing or rotary 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 recommended 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. No human flaggers are permitted.

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.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear coveralls over a long-sleeved shirt, long pants, chemical resistant gloves and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer or obtain technical advice from the distributor or your provincial agricultural representative.

For application to rights-of-way, buffer zones for protection of sensitive terrestrial habitats are not required; however, the best available application strategies that 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 buffer zones for protection of sensitive aquatic habitats.

Buffer Zones:

Use of the following spray methods or equipment DO NOT require a buffer zone: mechanically pressurized handgun or backpack sprayer and spot treatment.

For the use of the herbicide in site preparation and conifer release in forestry, terrestrial buffer zones are not required. The buffer zones specified in the tables 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. Seasonal water bodies require buffer zones if there is water in them during application. Water bodies which do not fill on an annual basis need not be buffered.

Method of Application	Crop		Buffer Zones (metres) Required for the Protection of:					
			Freshwater Habitat of Depths		Estuarine/Marine Habitats of Depths		Terrestrial Habitat	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m		
Field sprayer*	Golf courses, turf		1	0	1	0	1	
	Field crops (wheat, barley, rye, field corn)		1	1	1	1	1	
	Grasslands, crop stubble, pastures, rangelands, non-cropland (including rights-of-way** and brush control)		1	1	1	1	2	
Aerial	Field crops (wheat, barley, field corn)	Fixed wing	10	0	1	0	45	
		Rotary wing	10	0	1	0	40	
	Grasslands, pastures, rangeland, fallowland and crop stubble	Fixed wing	15	0	1	0	60	
		Rotary wing	15	0	1	0	50	
	Non-cropland (including rights-of-way** and brush control)	3.4 L/ha	Fixed wing	70	0	1	0	150**
			Rotary wing	35	0	1	0	80**
		6.78 L/ha	Fixed wing	125	1	15	1	225**
			Rotary wing	50	1	5	1	100**
Aerial	3.4 L/ha	Fixed wing	175	0	1	0	NR	
		Rotary wing	95	0	1	0	NR	
	4.7 L/ha	Fixed wing	225	1	1	0	NR	
		Rotary wing	125	1	1	0	NR	
	6.8 L/ha	Fixed wing	350	1	20	1	NR	
		Rotary wing	175	1	10	1	NR	

NR = Not required

* For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

** For application to rights-of-way, buffer zones for protection of sensitive terrestrial habitats are not required.

NOTE: Applicators may recalculate a site-specific buffer zone by combining information on current weather conditions and spray configuration for the following applications: all airblast applications, and for field and aerial applications which specify the following droplet size category wording on the product label: 'DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) [Fine or Medium or Coarse] classification.' To access the Buffer Zone Calculator, please visit the Pest Management Regulatory Agency web site.

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

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