

2015-0158 2015-02-10

(Container)

Group	2	Herbicide
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ADAMA
Florasulam 50 SC Herbicide

Suspension

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION OF BRITISH COLUMBIA ONLY

A selective herbicide for postemergent control of annual broadleaved weeds including cleavers, wild buckwheat and chickweed in spring wheat (including durum), spring barley, and oats (tank mixes only).

AGRICULTURAL

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

GUARANTEE: florasulam 50 g/L
Contains 1,2-benzisothiazoline-3-one at 0.039% as a preservative

REGISTRATION NO. 30814

PEST CONTROL PRODUCTS ACT

CAUTION



POISON

MAY CAUSE SLIGHT EYE IRRITATION

NET CONTENTS: 0.5-250 Litres

ADAMA Agricultural Solutions Canada Ltd.
300 – 191 Lombard Avenue
Winnipeg, Manitoba
R3B 0X1

1-855-264-6262

**For emergency medical help and health/safety inquires call ProPharma at 1-877-250-9291
(24 hours a day)**

For spill, leak or fire call INFOTRAC at 1-800-535-5053 (24 hours a day)

PRECAUTIONS MAY CAUSE SLIGHT EYE IRRITATION. KEEP OUT OF REACH OF CHILDREN. DO NOT APPLY BY AIR.

At all times: Wear clean clothing with full length sleeves and pants. **During mixing and loading, and clean-up and repair:** Wear chemical-resistant gloves. Rinse gloves before removal. Use safety glasses. **At completion of spraying or end of the day:** Take a shower immediately. Wash thoroughly with soap and water before eating, drinking or smoking. 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. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

FIRST AID:

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. 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.

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

TOXICOLOGICAL INFORMATION

No specific antidote. Employ supportive care. Treatment should be based on 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 HAZARDS

Overspray or drift to sensitive habitats should be avoided. A buffer zone of 30 metres is required between the downwind edge of the boom and the closest edge of sensitive terrestrial habitats including forested areas, shelter belts, woodlots, hedgerows, and shrublands. A buffer zone of 5 metres is required between the downwind edge of the boom and the closest edge of sensitive aquatic habitats including sloughs, ponds, prairie potholes, lakes, rivers, streams, wetlands and wildlife habitats at the edge of these bodies of water. Do not contaminate these habitats when cleaning and rinsing spray equipment or containers.

Do not apply during periods of dead calm or when winds are gusty.

STORAGE

Store in original containers in a secure, dry heated storage. Florasulam 50 SC Herbicide will freeze at -10°C. 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).

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 any 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.

(Booklet)

Group	2	Herbicide
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MANA

Florasulam 50 SC Herbicide

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OF BRITISH COLUMBIA ONLY**

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AGRICULTURAL

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At all times: Wear clean clothing with full length sleeves and pants. **During mixing and loading, and clean-up and repair:** Wear chemical-resistant gloves. Rinse gloves before removal. Use safety glasses. **At completion of spraying or end of the day:** Take a shower immediately. Wash thoroughly with soap and water before eating, drinking or smoking. 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. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

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AGRICULTURAL CHEMICAL

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

ENVIRONMENTAL HAZARDS

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Do not apply during periods of dead calm or when winds are gusty.

STORAGE

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GENERAL INFORMATION

Florasulam 50 SC Herbicide is a selective postemergence herbicide for the control of hard-to-kill annual broadleaved weeds such as chickweed, wild buckwheat and cleavers in spring wheat (including durum), spring barley, and oats (tank mixes only) not underseeded with legumes. Florasulam 50 SC Herbicide is mixed with water and applied as a uniform broadcast spray. It is non-corrosive, nonflammable, and nonvolatile.

Florasulam 50 SC Herbicide must be applied early postemergence, to the main flush of actively growing broadleaved weeds. Warm, moist growing conditions promote active weed growth and enhance the activity of Florasulam 50 SC Herbicide by allowing maximum foliar uptake and contact activity. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and re-growth may occur. For best results, ensure thorough spray coverage of target weeds. See "DIRECTIONS FOR USE" section of this label for complete use details.

Florasulam 50 SC Herbicide stops growth of susceptible weeds rapidly. However, typical symptoms (discolouration) of dying weeds may not be noticeable for 1 to 2 weeks after application, depending upon growing conditions and weed susceptibility. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.

MODE OF ACTION

Florasulam 50 SC Herbicide inhibits the production of the ALS enzyme in plants. This enzyme is essential for the production of certain amino acids which are essential for plant growth. Florasulam 50 SC Herbicide is a Group 2 mode of action herbicide.

GENERAL USE PRECAUTIONS

Sensitive Plants

Do not apply Florasulam 50 SC 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 (e.g. canola and legumes) 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 Florasulam 50 SC Herbicide can be seeded the following year to barley, canola, peas, wheat or fields can be summer fallowed.

Do not use in successive years at the same site.

This product has potential to leach. Do not apply excessive irrigation.

Tank Mixtures

Do not apply this product with any other additive, pesticide or fertilizer except as specifically recommended on this label. 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:

1. Use nozzles delivering higher volumes and coarser droplets.
2. Use low pressures (200 to 275 kPa).
3. Use 100 L/ha of spray solution.
4. Spray when the wind velocity is 15 km/hr or less.
5. Spot treatments should only be applied with a calibrated boom to prevent over-application.

Equipment Clean-Up

Equipment used to apply Florasulam 50 SC Herbicide should not be used to apply other pesticides to sensitive crops without thorough cleaning. To avoid subsequent injury to crops other than cereals, all spraying equipment must be thoroughly cleaned both inside and out, as follows:

1. Immediately after spraying, drain. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. Rinse inside of tank with clean water and flush through booms and hoses using at least one tenth of the spray tank volume. Drain tank completely.
3. Add 1 L of household ammonia (containing a minimum of 3 % ammonia) per 100 L of water while filling the tank with clean water. Agitate and then briefly flush the boom and hoses with the cleaning solution. Top up with water making sure the tank is completely full and allow to stand for 15 minutes with agitation. Flush the boom and hoses and drain tank completely.
4. Remove nozzles and screens and clean separately with an ammonia solution (100 mL in 10 L water).
5. Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume. Drain tank completely.

Note: If it is not possible to drain the tank completely, step 3 must be repeated before going onto step 4. **Caution:** Do not use ammonia with chlorine bleach. Using ammonia with chlorine bleach will release a gas with a musty chlorine odour which may cause eye, nose, throat, and lung irritation. Do not clean equipment in an enclosed area.

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 UNDERSEEDDED WITH LEGUMES.

FLORASULAM 50 SC HERBICIDE ALONE

Crops Registered

spring wheat (including durum) and spring barley

Application Directions

Apply 100 mL of Florasulam 50 SC Herbicide per hectare in a minimum of 100 L per hectare of water. Add Agral 90 at 0.2% v/v. See weeds species controlled under “Weeds Controlled or Suppressed by Florasulam 50 SC Herbicide Alone at 100 mL/ha.” Apply to actively growing wheat and barley from the 2 to 6 leaf stage. Apply when weeds are actively growing. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds.

Application Timing

Apply to actively growing weeds in the 2-4 leaf stage. 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. Only weeds which are emerged at the time of application will be affected. If foliage is wet at the time of application control may be decreased. Under conditions of low crop and high weed density, control may be reduced.

Weeds Controlled or Suppressed by Florasulam 50 SC Herbicide Alone at 100 mL/ha

Weeds Controlled:

buckwheat, wild canola,	shepherd's-purse
volunteer♦	smartweed
chickweed, common	stinkweed
cleavers	mustard, wild

♦ Including herbicide-tolerant canola varieties except Clearfield canola.

Weeds Suppressed:

hempnettle	sowthistle, annual
pigweed, redroot	sowthistle, perennial*

* Applications made at advanced leaf stages will reduce product effectiveness.

Mixing Instructions

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required amount of Florasulam 50 SC Herbicide
4. Fill the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
5. Add Agral 90 as the last ingredient at the rate of 0.2% v/v (2 L per 1000 L of spray volume).
6. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. canola and legumes).
7. Follow sprayer clean-up directions.

Preharvest/Grazing Intervals

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

TANK-MIX COMBINATIONS – FLORASULAM 50 SC HERBICIDE + AXIAL² 100EC HERBICIDE OR MANA LADDER 240 EC

For control of annual grasses (see table below) tank mix Florasulam 50 SC Herbicide with either Axial 100EC Herbicide or MANA LADDER 240 EC. Refer to the above table for broadleaved weeds controlled or suppressed with Florasulam 50 SC Herbicide. Read all tank mix partner labels thoroughly for more information on precautions, preharvest intervals, buffer zone requirements and additional directions for use.

Tank-Mix Combinations with Florasulam 50 SC Herbicide for Annual Grass Control

Tank-Mix Partner	Crops Registered	Rate/ha	Adjuvant and Rate	Additional Weeds Controlled
Axial 100 EC Herbicide	spring wheat spring barley	600 mL	Adigor 700 mL/ha	wild oats, green foxtail♦ yellow foxtail, volunteer oats, volunteer canary seed, proso millet
MANA LADDER 240 EC Or Horizon 240 EC	spring wheat durum wheat	230 mL	XA Oil Concentrate or Score 0.8% v/v	wild oats, green foxtail, yellow foxtail, volunteer (tame) oats, volunteer canary seed, barnyard grass
		290 mL	XA Oil Concentrate or Score 1.0% v/v	wild oats, green foxtail, yellow foxtail, volunteer (tame) oats, volunteer canary seed, barnyard grass, plus: Persian darnel

♦Reduction in control of green foxtail may be observed when tank mixed with Axial 100EC Herbicide.

♦Suppression only of green foxtail when tank mixed with Axial 100EC Herbicide and MCPA Ester.

To control additional broadleaved weeds, MCPA Ester may be added to either tank mix up to a maximum of 420 g ae/ha (equivalent to 840 mL/ha of MCPA LV500). Refer to the MCPA Ester tank mix partner label for rates less than 420 g ae/ha and weed 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 Florasulam 50 SC Herbicide and agitate for 2-3 minutes.
3. If 2,4-D Ester, MCPA Ester or Curtail M are also being added, add these next.
4. Add Axial 100EC Herbicide or Ladder 240 EC or Horizon 240EC Herbicide. Agitate for 2-3 minutes.
5. Add required Adjuvant.
6. Agitate for 1-2 minutes before adding remainder of water and then maintain constant agitation.
7. After any break in spraying operations, agitate thoroughly before spraying again.
8. **Use the spray suspension as soon as it is prepared.**
9. If an oil film starts to build up in the tank, drain tank and then clean as directed on this label.

TANK MIX COMBINATION - FLORASULAM 50 SC HERBICIDE + MCPA Ester HERBICIDE

Crops Registered

Spring wheat (including durum), spring barley, and oats

Application Directions

For control of a wide spectrum of broadleaved weeds apply Florasulam 50 SC Herbicide at 100 mL/ha tank mixed with MCPA Ester Herbicide at 0.70 L/ha (350 g ai/ha) in 100 L per hectare of water. Apply to actively growing wheat, barley, and oats from the 2 to 6 leaf stage. Apply when weeds are actively growing. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds. Follow all precautions, directions for use, and limitations on the tank mix partner labels.

Weeds Controlled or Suppressed by the Tank Mixture of Florasulam 50 SC Herbicide + MCPA Ester Herbicide

Weeds Controlled:

Weeds Controlled:

buckwheat, wild

ragweed, common

burdock◆◆	lamb's quarters	shepherd's purse
canola, volunteer◆	mustard, ball	smartweed
chickweed, common	mustard, wild	stinkweed
cleavers	pigweed, redroot◆◆◆	sunflower, annual◆◆
flixweed (spring rosettes only)	pigweed, Russian◆◆	
hempnettle◆◆◆	prickly lettuce◆◆	

Weeds Suppressed:

dandelion (seedlings and overwintered rosettes less than 15 cm) ◆◆◆	sowthistle, perennial
plantain (top growth) sowthistle, annual	stork's bill◆◆◆
	thistle, Canada◆◆◆

◆Including herbicide-tolerant canola varieties

◆◆Up to 4 leaf stage

◆◆◆Optimum control can be achieved with the addition of 70 g ae/ha) of MCPA Ester Herbicide

Mixing Instructions

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required amount of Florasulam 50 SC Herbicide
4. Add the correct amount of MCPA Ester Herbicide and continue to agitate.
5. Fill the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
6. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. canola and legumes).
7. Follow sprayer clean-up directions.

Note: Do not add a surfactant to this tank mixture.

Pre-Harvest/Grazing Intervals (Florasulam 50 SC Herbicide + MCPA Ester Herbicide)

1. Do not cut the treated crop for hay or graze treated crop within 7 days after application.
2. Do not harvest the treated crop within 60 days after application.

TANK-MIX COMBINATIONS - FLORASULAM 50 SC HERBICIDE + MCPA Ester HERBICIDE + OTHER HERBICIDES

Crops Registered

spring wheat (including durum) and spring barley

Do not apply these tank mixes to oats.

Application Directions

Tank mixtures of Florasulam 50 SC Herbicide + MCPA Ester Herbicide with other herbicides will provide control of broadleaved weeds and specified annual grasses. Apply to actively growing wheat and barley from the 2 to 6 leaf stage. Apply when weeds are actively growing. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds. Follow all precautions, minimum interval to harvest and directions for use on the Florasulam 50 SC Herbicide and tank mix partner labels.

Tank-Mix Combinations with Florasulam 50 SC Herbicide + MCPA Ester Herbicide + Other Herbicides

Herbicide Tank-Mix Partner	Crops Registered	Rate (Product/ha)	Adjuvant and Rate	Additional Weeds Controlled
Assert¹ 300 SC Herbicide	wheat (spring & durum), spring barley	1.6 L	Refer to Assert 300 SC Herbicide label	wild oat
MANA LADDER 240 EC Or Horizon	wheat (spring & durum)	230 mL	XA Oil Concentrate or Score 0.8% v/v	wild oats, green foxtail, yellow foxtail, volunteer (tame) oats, volunteer canary seed, barnyard grass
		290 mL	XA Oil Concentrate or Score 1.0% v/v	wild oats, green foxtail, yellow foxtail, volunteer (tame) oats, volunteer canary seed, barnyard grass, plus: Persian darnel
Everest Solupak 70 DF⁵◆	Wheat (spring & durum)	43 g	Ag-Surf or Agral 90 0.25% v/v	Wild oat and green foxtail

◆Wheat (including durum) exposed to water-logged or saturated soils, or temperature extremes such as heat or freezing weather, or drought, low fertility or plant disease at application time could show unacceptable injury symptoms. Weed control may also be reduced by these same conditions.

Mixing Instructions

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add Florasulam 50 SC Herbicide (see Notes 2 and 3 below).
4. Add MCPA Ester Herbicide and continue to agitate.
5. Add the required amount of tank mix partner and continue to agitate.
6. Fill the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
7. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. canola and legumes).
8. Follow sprayer clean-up directions.

Note 1: Add only the adjuvant recommended above. Follow tank-mix partner label for order of mixing and any specific instructions for mixing.

Note 2: When using Assert 300 SC Herbicide, add tank mix partners in the following order: Florasulam 50 SC Herbicide, Spray Water pH Adjuster, Assert 300 SC Herbicide, MCPA Ester Herbicide.

Note 3: When using Everest Solupak 70 DF Herbicide add tank mix partners in the following order: Everest Solupak 70 DF Herbicide, tank mix partner, adjuvant.

TANK MIX COMBINATION - FLORASULAM 50 SC HERBICIDE+ CURTAIL M HERBICIDE

Crops Registered

spring wheat (including durum), spring barley, and oats

Application Directions

For control of a wide spectrum of annual broadleaved weeds plus Canada thistle and perennial sowthistle, apply Florasulam 50 SC Herbicide at 100 mL/ha tank mixed with 1.5 L/ha of Curtail M Herbicide in 100 L per hectare of water. Apply to actively growing wheat, barley, and oats from the 2 to 6 leaf stage. Apply when weeds are actively growing. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications

made to seedling weeds. Follow all precautions, directions for use and limitations on the tank mix partner labels.

Weeds Controlled or Suppressed by the Tank Mixture of Florasulam 50 SC Herbicide + Curtail M Herbicide

Weeds Controlled:

buckwheat, wild	lamb's quarters	stinkweed
canola, volunteer♦	mustard, wild	stork's-bill
chickweed, common	pigweed, redroot	thistle, Canada
cleavers		shepherd's purse
dandelions (seedlings and overwintered rosettes < 15 cm)		Smartweed
Flixweed (spring rosettes only)♦♦		hempnettle
sowthistle, annual sowthistle,		perennial (top growth only)
		♦♦

♦Including herbicide-tolerant canola varieties.

♦♦Control not observed until a minimum of 40 days after treatment.

Weeds Suppressed: dandelion (overwintered rosettes > 15 cm, mature plants) plantain (top growth)

Mixing Instructions

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required amount of Florasulam 50 SC Herbicide
4. Add the correct amount of Curtail M Herbicide and continue to agitate.
5. Fill the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
6. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. canola and legumes).
7. Follow sprayer clean-up directions.

Note: Do not add a surfactant to this tank mixture.

Pre-Harvest/Grazing Intervals (Florasulam 50 SC Herbicide + Curtail M Herbicide)

1. Do not cut the treated crop for hay or graze treated crop within 7 days after application.
2. Do not harvest the treated crop within 60 days after application.

TANK-MIX COMBINATIONS - FLORASULAM 50 SC HERBICIDE + CURTAIL M HERBICIDE + OTHER HERBICIDES

Crops Registered

spring wheat (including durum) and spring barley

Do not apply these tank mixes to oats.

Application Directions

Tank mixtures of Florasulam 50 SC Herbicide + Curtail M Herbicide with other herbicides will provide control of broadleaved weeds and specified annual grasses. Apply to actively growing wheat and barley from the 2 to 6 leaf stage. Apply when weeds are actively growing. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds. Follow all precautions, minimum interval to harvest and directions for use on the Florasulam 50 SC Herbicide and tank mix partner labels.

Tank-Mix Combinations with Florasulam 50 SC Herbicide, Curtail M Herbicide + Other Herbicides

Tank-Mix Partner	Crops Registered	Rate/ha	Adjuvant and Rate	Additional Weeds Controlled
Assert1 300 SC Herbicide	wheat (spring & durum), spring barley	1.6 Litres	Refer to Assert 300 SC label	wild oat
Everest Solupak 70 DF⁵	Wheat (spring & durum)	46 g	Ag-Surf or Agral 90 0.25% v/v	Wild oat and green foxtail

◆Wheat (including durum) exposed to water-logged or saturated soils, or temperature extremes such as heat or freezing weather, or drought, low fertility or plant disease at application time could show unacceptable injury symptoms. Weed control may also be reduced by these same conditions.

Mixing Instructions

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add tank mix partners in the proper order (see Notes 2 and 3 below) and continue to agitate.
4. Fill the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
5. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. canola and legumes).
6. Follow sprayer clean-up directions.

Note 1: Add only the adjuvant recommended. Follow tank-mix partner label for order of mixing and for any specific mixing instructions.

Note 2: When using Assert 300 SC Herbicide, add tank mix partners in the following order: Florasulam 50 SC Herbicide, Spray Water pH Adjuster, Assert 300 SC Herbicide, Curtail M Herbicide.

Note 3: When using Everest Solupak 70 DF Herbicide add tank mix partners in the following order: Everest Solupak 70 DF Herbicide, tank mix partner, adjuvant. Vigor's agitation is required to dissolve Everest Solupak 70 DF Herbicide before adding other tank mix partners.

TANK-MIX COMBINATION - FLORASULAM 50 SC HERBICIDE + 2,4-D Ester HERBICIDE

Crops Registered

Spring wheat (including durum)

Application Directions

For control of a wide spectrum of broadleaved weeds apply Florasulam 50 SC Herbicide at 100 mL/ha tank-mixed with 2,4-D Ester Herbicide at 560 g a.e./ha. Follow all precautions, directions for use and limitations on the tank -mix partner labels. Apply when wheat is in the 3 leaf expanded stage to the 6 leaf stage. Apply when weeds are actively growing. Only weeds emerged at the time of treatment will be affected. Best results are obtained from application made to seedling weeds.

Weeds Controlled or Suppressed by the Tank Mixture of Florasulam 50 SC Herbicide + 2,4-D Ester Herbicide

Weeds Controlled:

bluebur	flixweed	ragweed, common
burdock	kochia◆◆	shepherd's purse
buckwheat, tartary	lady's-thumb	smartweed
buckwheat, wild	lamb'squarters	sowthistle, annual
canola, volunteer◆	mustard, ball	stinkweed

chickweed, common	mustard, wild	sunflower, annual
cleavers	pigweed, redroot	thistle, Russian
cocklebur	plantain	vetch
dandelion (seedlings and overwintered rosettes)		
prickly lettuce	wild radish	

◆Including all herbicide-tolerant canola varieties.

◆◆Up to 5 cm in height

Weeds Suppressed:

Hempnettle,
sowthistle, perennial (top growth control),
thistle, Canada (top growth control)

Mixing Instructions

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add Florasulam 50 SC Herbicide
4. Add 2,4-D Ester Herbicide and continue to agitate.
5. Fill the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
6. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. canola and legumes).
7. Follow sprayer clean-up directions.

Pre-Harvest/Grazing Intervals (Florasulam 50 SC Herbicide + 2,4-D Ester Herbicide)

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

TANK-MIX COMBINATIONS WITH FLORASULAM 50 SC HERBICIDE + 2,4-D Ester

HERBICIDE + OTHER HERBICIDES

Crops Registered

spring wheat (including durum)

Tank mixtures of Florasulam 50 SC Herbicide + 2,4-D Ester Herbicide with other herbicides will provide control of broadleaved weeds and specified annual grasses. Apply when crops and weeds are actively growing. Only weeds emerged at the time of treatment will be controlled.

Best results are obtained from applications made to seedling weeds. Follow all precautions, minimum interval to harvest and directions for use on the Florasulam 50 SC Herbicide and tank mix partner labels.

Tank-Mix Combinations with Florasulam 50 SC Herbicide + 2,4-D Ester Herbicide + Other Herbicides

Herbicide Tank-Mix Partner	Rate/ha	Adjuvant and Rate	Additional Weeds Controlled
Assert1 300 SC Herbicide	1.6 Litres	Refer to Assert 300 SC label	wild oat

Everest Solupak 70 DF⁵◆	43 g	Ag-Surf or Agral 90 0.25% v/v	Wild oat and green foxtail
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◆Wheat (including durum) exposed to water-logged or saturated soils, or temperature extremes such as heat or freezing weather, or drought, low fertility or plant disease at application time could show unacceptable injury symptoms. Weed control may also be reduced by these same conditions.

Mixing Instructions

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add Florasulam 50 SC Herbicide (see Notes 2 and 3 below).
4. Add 2,4-D Ester 0 Herbicide and continue to agitate.
5. Add tank mix partner and continue to agitate.
6. Fill the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
7. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. canola and legumes).
8. Follow sprayer clean-up directions.

Note 1: Add only the adjuvant recommended below. Follow tank-mix partner label for order of mixing and any specific instructions for mixing.

Note 2: When using Assert 300 SC herbicide, add tank mix partners in the following order: Florasulam 50 SC Herbicide, Spray Water pH Adjuster, Assert 300 SC Herbicide, 2,4-D LV 600 Herbicide.

Note 3: When using Everest Solupak 70 DF add tank mix partners in the following order: Everest Solupak 70 DF, tank mix partner, adjuvant. Vigouress agitation is required to dissolve Everest Solupak 70 DF before adding other tank mix partners.

TANK MIX COMBINATION - FLORASULAM 50 SC HERBICIDE + BROMOXYNIL

Crops Registered

spring wheat (including durum) and spring barley

Application Directions

For control of a wide spectrum of broadleaved weeds, apply Florasulam 50 SC Herbicide at 100 mL/ha tank mixed with 280 g ai/ha of bromoxynil liquid formulations, including emulsifiable suspensions (for example, 1.2 L Bromotrifluralin 240 EC, 1 L/ha Pardner Emulsifiable Selective Weedkiller or 1.2 L/ha Koril 235 Liquid Herbicide,), in 100 L per hectare of water. Apply to spring wheat, durum wheat, and spring barley from the 2 to 6 leaf stage. Apply when weeds are actively growing (2-4 leaf stage). Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds. Follow all precautions, directions for use, and limitations on the tank mix partner labels. **Weeds Controlled or Suppressed by Florasulam 50 SC Herbicide + bromoxynil**

Weeds Controlled: Up to 4 leaf stage

bluebur	kochia◆◆◆	smartweed, green
buckwheat, wild	lady's-thumb	smartweed, pale
canola, volunteer◆	mustard, wild	stinkweed
chickweed, common	nightshade, American	thistle, Russian◆◆
cleavers	pigweed, red-root	velvetleaf◆◆◆
cocklebur	ragweed, common	
cow cockle		shepherd's purse

◆Including herbicide-tolerant canola varieties except Clearfield canola.

◆◆Apply before plants are 5 cm high

◆◆◆Apply before plants are 8 cm high

Up to 8 leaf stage

buckwheat, common groundsel, common
buckwheat, Tartary Weeds lamb's-quarters

Suppressed:

hempnettle sowthistle, perennial♦
sowthistle, annual

♦Applications made at advanced leaf stages will reduce product effectiveness.

Mixing Instructions

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required amount of Florasulam 50 SC Herbicide and continue to agitate.
4. Add the correct amount of bromoxynil product
5. Fill the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
6. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. canola and legumes).
7. Follow sprayer clean-up directions.

Note: Do not add a surfactant to this tank mixture.

Pre-Harvest/Grazing Intervals (Florasulam 50 SC Herbicide + bromoxynil)

1. Do not cut the treated crop for hay or graze treated crop within 30 days of application.
2. Do not harvest the treated crop within 60 days of application.

TANK-MIX COMBINATIONS WITH FLORASULAM 50 SC HERBICIDE + BROMOXYNIL + OTHER HERBICIDES

Crops Registered

spring wheat (including durum)

Tank mixtures of Florasulam 50 SC Herbicide + bromoxynil with other herbicides will provide control of broadleaved weeds and specified annual grasses. Apply when crops and weeds are actively growing. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds. Follow all precautions, minimum interval to harvest and directions for use on the Florasulam 50 SC Herbicide and tank-mix partner labels.

Tank-Mix Combinations with Florasulam 50 SC Herbicide + Bromoxynil Liquid Formulations, Including Emulsifiable Suspensions, + Other Herbicides

Tank-Mix Partner	Crops Registered	Rate/ha	Adjuvant and Rate	Additional Weeds Controlled
MANA LADDER 240 EC or Horizon	wheat (spring & durum)	230 mL	XA Oil Concentrate or Score 0.8% v/v	wild oat and green foxtail

Mixing Instructions

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add Florasulam 50 SC Herbicide
4. Add bromoxynil product and continue to agitate.
5. Add tank mix partner and continue to agitate.
6. Add adjuvant if required and continue to agitate.
7. Fill sprayer tank with sufficient water to spray 100 L of spray mixture per hectare
8. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. canola and legumes).

9. Follow sprayer clean-up directions.

TANK MIX COMBINATION - FLORASULAM 50 SC HERBICIDE + GLYPHOSATE PRESENT AS ISOPROPYLAMINE SALT OR DIMETHYLAMINE SALT (E.G., VANTAGE™ PLUS HERBICIDE OR VANTAGE PLUS MAX II HERBICIDE SOLUTION)

Crops Registered: Spring barley Oats Spring wheat (including durum)

Application Directions

Florasulam 50 SC Herbicide may be tank mixed with glyphosate present as isopropylamine salt (e.g., Vantage Plus Herbicide) or dimethylamine salt Vantage Plus MAX II Herbicide Solution) to control volunteer glyphosate-tolerant canola, wild buckwheat (up to 5 leaf) and top growth control of dandelion (up to 6 leaf stage), in addition to the labelled weeds controlled by Florasulam 50 SC Herbicide or glyphosate.

Apply Florasulam 50 SC Herbicide at 100 mL/ha with glyphosate (present as isopropylamine salt or dimethylamine salt) at 450 g a.e./ha in 100 L water per hectare.

Application Timing and Cropping

Apply to actively growing weeds in the 2-4 leaf stage, except where noted above. Extreme growing conditions such as drought or near freezing temperature prior to, at or following time of application may reduce weed control. Only weeds which are emerged at the time of application will be affected. If foliage is wet at the time of application, control may be decreased. Under conditions of high weed density, control, may be reduced.

Spring

Florasulam Suspension Concentrate Herbicide + glyphosate may be applied in the spring prior to seeding and no longer than 48 hours after seeding prior to any crop emergence. Fields treated with Florasulam Suspension Concentrate Herbicide in the spring may be planted to barley, oats, wheat, durum or summer fallowed.

Summer

Prior to August 1st: Florasulam Suspension Concentrate Herbicide + glyphosate may be applied to summer fallow fields and seeded in the following spring to barley, canola, oats, peas or wheat (including durum) or summer fallowed.

After August 1st, Florasulam Suspension Concentrate Herbicide + glyphosate may be applied to summer fallow fields and seeded in the following spring to barley, oats or wheat (including durum) or summer fallowed.

Fall

Florasulam Suspension Concentrate Herbicide + glyphosate may be applied to stubble or summer fallow fields after August 1st and prior to freeze-up and may be seeded to barley, oats or wheat (including durum) or summer fallowed.

Do not use in successive years at the same site.

Apply only one of the following treatments to the same site in the same year: a tank-mix of Florasulam 50 SC Herbicide and Glyphosate Herbicide (Vantage Plus Herbicide or Vantage Plus MAX II Herbicide Solution) (prior to planting or as the initial treatment in summerfallow), Frontline* Herbicide Tank-Mix (postemergence), or Spectrum* Herbicide Tank-Mix (postemergence).

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Florasulam 50 SC Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to Florasulam 50 SC Herbicide and other Group 2 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 Florasulam 50 SC Herbicide or other Group 2 herbicides 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.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- 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 ADAMA Agricultural Solutions Canada Ltd. at 1-855-264-6262.

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 any 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.

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