

**(WSP)**

# **Florasulam-F A**

## **Water Dispersible Granular Herbicide**

A component of Florasulam-F Herbicide Tank-Mix

Water Dispersible Granules

**KEEP OUT OF REACH OF CHILDREN**

GUARANTEE:           Flucarbazone           66%  
                                (present as flucarbazone-sodium)

NET CONTENTS: 174 grams

**(Overpack)**



# Florasulam-F A

## Water Dispersible Granular Herbicide

GROUP	2	HERBICIDE
-------	---	-----------

Water dispersible granules in water-soluble packs

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

This component must only be used in the Florasulam-F Herbicide Tank-Mix.

AGRICULTURAL

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

GUARANTEE: Flucarbazone 66%  
(present as flucarbazone-sodium)

REGISTRATION NO. 27240 PEST CONTROL PRODUCTS ACT

Individual soluble packets cannot be sold separately.

NET CONTENTS: 4 x 174 grams Water Soluble Packets

**Dow AgroSciences Canada Inc.**  
Suite 201, 1144 - 29 Avenue N.E.  
Calgary, Alberta  
T2E 7P1  
1-800-667-3852

**PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN  
DO NOT APPLY BY AIR**

**PROTECTIVE CLOTHING:**

When handling (mixing and loading) Florasulam-F A, wear long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Follow manufacturer's instructions for cleaning/maintaining PPE (Personal Protective Equipment). If no such instructions for washables, use detergent and hot water. Keep PPE apart from other laundry and wash separately.

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside, then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change in to clean clothing.

**FIRST AID**

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

**If swallowed:** Call a physician or Poison Control Centre **IMMEDIATELY**. Drink one or two glasses of water and induce vomiting by touching back of throat with finger or, if available, by administering syrup of ipecac. If syrup of ipecac is available, administer 1 tablespoon (15 mL) of syrup of ipecac followed by 1 to 2 glasses of water. If vomiting does not occur within 20 minutes, repeat the dose once. Do not induce vomiting or give anything by mouth to an unconscious person.

**If on skin:** Wash thoroughly with soap and water. Get medical attention if irritation occurs.

**If in eyes:** Hold eyelids open and flush with plenty of water for 15 minutes. Get medical attention if irritation occurs.

**If inhaled:** Remove from site of exposure.

**TOXICOLOGICAL INFORMATION**

No specific antidote. Employ supportive care. Treatment should be based on the judgment of the physician in response to reactions of the patient.

**AGRICULTURAL CHEMICAL**

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

**ENVIRONMENTAL HAZARDS**

Overspray or drift to sensitive habitats should be avoided. A buffer zone of 20 m is required between the downwind edge of the boom and the closest edge of sensitive terrestrial habitats including forested areas, shelterbelts, woodlots, hedgerows, and shrublands. A buffer zone of 35 m is required between the downwind edge of the boom and the closest edge of sensitive aquatic habitats including sloughs, coulees, ponds, prairie potholes, lakes, rivers, streams, wetlands, and wildlife habitat 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, when winds are gusty or when wind speed is greater than 15 km/hr at 2 m high above ground at the site of application.

**STORAGE**

Store in cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, or feed. Store in original container and out of reach of children, preferably in a locked storage area. Florasulam-F A is not affected by freezing; however, the water-soluble packet becomes brittle and may break if handled roughly in a frozen condition. Avoid physical damage to Florasulam-F A water-soluble packets during storage and prior to mixing in spray tank.

Keep water-soluble packets in this container and store in a cool, dry place. Do not allow packets to become wet prior to adding to the spray tank.

**SPILL CLEAN UP:** Follow safety precautions as directed for handling the product. Sweep spilled product with a broom and shovel into tightly closable container. If on a floor or hard surface, wash the surface or floor with detergent and water, then rinse. If on soil, collect surface soil contaminated with the product. If the product is clean, it may be used; otherwise, follow the DISPOSAL instructions.

**DISPOSAL**

1. When all the water-soluble bags are used, make the empty outer package unsuitable for further use.
2. Dispose of the outer package in accordance with provincial requirements.
3. 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 control product is to be used only in accordance with the directions on this label. It is an offense under the Pest Control Products Act to use a control product under unsafe conditions.

**NOTICE TO BUYER:** Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

031604

**(Booklet)**

# Florasulam-F Herbicide Tank-Mix

GROUP	2	HERBICIDE
-------	---	-----------

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

Florasulam-F Herbicide Tank-Mix is a selective herbicide for postemergent control of annual broadleaved weeds and annual grasses in spring wheat.

AGRICULTURAL

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

This co-package contains:

Florasulam-F A Water Dispersible Granular Herbicide  
REGISTRATION NO. 27240 PEST CONTROL PRODUCTS ACT  
GUARANTEE: Flucarbazone 66%  
(present as flucarbazone-sodium)

Florasulam-F B Suspension Concentrate Herbicide  
REGISTRATION NO. 27241 PEST CONTROL PRODUCTS ACT  
GUARANTEE: Florasulam 50 g/L  
Contains 1,2 benzisothiazolin-3-one at 0.02% as a preservative.

Notification Change

**CAUTION**  **POISON**

**MAY CAUSE SLIGHT EYE IRRITATION**

NET CONTENTS: Florasulam-F A WDG Herbicide 4 x 174 grams Water Soluble Packets  
Florasulam-F B SC Herbicide 1.6 L

THE CONTENTS OF THIS CARTON WILL TREAT 16 HECTARES

**Dow AgroSciences Canada Inc.**  
Suite 201, 1144 - 29 Avenue N.E.  
Calgary, Alberta  
T2E 7P1  
1-800-667-3852

**PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN  
MAY CAUSE SLIGHT EYE IRRITATION**

**PROTECTIVE CLOTHING:**

When handling (mixing and loading), wear long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Follow manufacturer's instructions for cleaning/maintaining PPE (Personal Protective Equipment). If no such instructions for washables, use detergent and hot water. Keep PPE apart from other laundry and wash separately.

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside, then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change in to clean clothing.

**FIRST AID**

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

**If swallowed:** Do not induce vomiting. Call a physician or Poison Control centre **IMMEDIATELY**. The decision of whether to induce vomiting or not should be made by an attending physician. Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

**If on skin:** Wash thoroughly with soap and water. Get medical attention if irritation occurs.

**If in eyes: IMMEDIATELY** hold eyelids open and flush with plenty of water for 15 minutes. Get medical attention if irritation occurs.

**If inhaled:** Remove from site of exposure. Consult a physician.

**TOXICOLOGICAL INFORMATION**

No specific antidote. Employ supportive care. Treatment should be based on the judgment of the physician in response to reactions of the patient.

**AGRICULTURAL CHEMICAL**

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

**ENVIRONMENTAL HAZARDS**

Overspray or drift to sensitive habitats should be avoided. A buffer zone of 30 m is required between the downwind edge of the boom and the closest edge of sensitive terrestrial habitats including forested areas, shelterbelts, woodlots, hedgerows, and shrublands. A buffer zone of 35 m is required between the downwind edge of the boom and the closest edge of sensitive aquatic habitats including sloughs, coulees, ponds, prairie potholes, lakes, rivers, streams, wetlands, and wildlife habitat 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, when winds are gusty or when wind speed is greater than 15 km/hr at 2 m high above ground at the site of application

**STORAGE**

Store in cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, or feed. Store in original container and out of reach of children, preferably in a locked storage area. Florasulam-F A is not affected by freezing; however, the water-soluble packet becomes brittle and may break if handled roughly in a frozen condition. Avoid physical damage to Florasulam-F A water-soluble packets during storage and prior to mixing in spray tank. Florasulam-F B will freeze at -10° C. If product is frozen, bring to room temperature and agitate before use.

**SPILL CLEAN-UP:** Follow safety precautions as directed for handling the product. Sweep spilled product with a broom and shovel into tightly closable container. If on a floor or hard surface, wash the surface or floor with detergent and water, then rinse. If on soil, collect surface soil contaminated with the product. If the product is clean, it may be used; otherwise, follow the DISPOSAL instructions.

## **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.

### **Water Soluble Packets**

1. When all the water-soluble bags are used, make the empty outer package unsuitable for further use.
2. Dispose of the outer package in accordance with provincial requirements.

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**

Florasulam-F Herbicide Tank-Mix is a selective postemergence tank-mix for the control of hard-to-kill annual broadleaved weeds and annual grasses in spring wheat. Florasulam-F tank-mix is mixed with water and applied as a uniform broadcast spray. It is non-corrosive, nonflammable, and nonvolatile.

Florasulam-F tank-mix must be applied early postemergence, to the main flush of actively growing weeds. Warm, moist growing conditions promote active weed growth and enhance the activity of Florasulam-F tank-mix 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-F tank-mix 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-F tank-mix 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-F tank-mix is a Group 2 mode of action herbicide.

## **GENERAL USE PRECAUTIONS**

- **DO NOT APPLY BY AIR**
- Do not use in successive years at the same site.
- This product has potential to leach. Do not apply excessive irrigation.

- Do not apply through any type of irrigation system.
- Do not apply when rain is forecasted during application or expected in the next 6 hours.
- Do not treat wheat underseeded to legumes
- Do not mix, load or clean spray equipment within 10 metres of well-heads or aquatic systems, including marshes, ponds, ditches, streams, lakes, etc.

### **Sensitive Plants**

Do not apply Florasulam-F tank-mix 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, tame oats 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**

The following crops may be planted 11 months after an application of Florasulam-F tank-mix. **Black, Dark Brown and Gray-Wooded Soil Zones:** Spring wheat, barley, canola, field peas. **Brown Soil Zone:** Spring wheat.

### **Preharvest/Grazing Interval**

Do not feed or graze treated fields. Wheat grain or straw from treated fields may be fed to livestock. Observe minimum interval to harvest of 80 days after treatment.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact 1-866-375-4648 or [www.cropro.org/](http://www.cropro.org/).

### **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.

### **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-F tank-mix 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 UNDERSEEDED WITH LEGUMES.**

### Application Directions

For control or suppression of a wide spectrum of broadleaved weeds and annual grasses, apply Florasulam-F A at 43 g/ha, Florasulam-F B at 100 mL/ha, tank mixed with 2,4-D LV 600 at 1.0 L/ha. Add surfactant (Agral 90 or Ag-Surf) at 0.25% v/v (0.25 L/100L). Follow all precautions, directions for use and limitations on the tank-mix partner label. **Florasulam-F tank-mix must be applied with a surfactant and 2,4-D LV 600 Herbicide.**

Do not apply Florasulam-F Tank-Mix before crop emergence is complete.

### Crops Registered

Spring wheat

### Weeds Controlled or Suppressed by the tank mixture of Florasulam-F tank-mix + 2,4-D LV 600

Weeds Controlled:

bluebur	green foxtail	ragweed, common
burdock	kochia <sup>♦♦</sup>	shepherd's purse
buckwheat, tartary	lady's-thumb	smartweed
buckwheat, wild	lamb'squarters	sowthistle, annual
canola, volunteer <sup>♦</sup>	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 oats
flixweed		wild radish

<sup>♦</sup>Including all herbicide-tolerant canola varieties.

<sup>♦♦</sup>Up to 5 cm in height

Weeds Suppressed:

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

### Mixing Instructions

1. Fill the spray tank 3/4 full with clean water and begin agitation or bypass.
2. Add the required number of unopened packets of Florasulam-F A directly to the tank. Vigorous agitation is required to dissolve Florasulam-F A. Depending on the water temperature and the degree of agitation, the packets should be completely dissolved within approximately 5 to 10 minutes from the time they were added to the water. Check bottom of tank to ensure the Florasulam-F A is completely dissolved. Maintain sufficient agitation during both mixing and application.
3. Add the required amount of Florasulam-F B; continue agitation.
4. Add the required amount of 2,4-D LV 600 Herbicide; continue agitation.
5. Add the surfactant, then complete filling tank with balance of water needed.

**CAUTION:** Do not use water soluble packets in liquid fertilizer. Do not use packets in a tank-mix with products that contain boron or release free chlorine. The resultant reaction of water soluble packets and boron or free chlorine is a plastic, which is not soluble in water or solvents such as diesel oils, kerosene, gasoline or alcohol.

### **Application Timing**

Apply to spring wheat with 2-6 total leaves (4 leaves on main stem plus 2 tillers). Application beyond this stage may result in yield losses due to weed competition. Apply to actively growing broadleaved weeds in the 2-4 leaf stage. Green foxtail and wild oats should be no larger than 4 leaf (2 tillers). 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.

Wild oat and green foxtail cease growth soon after Florasulam-F tank-mix application. Complete weed control may not be seen for one to two weeks. However, weeds will have stopped growing and the competitive effects removed.

### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, Florasulam-F tank-mix is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to Florasulam-F tank-mix 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-F tank-mix 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 Dow AgroSciences Canada Inc. at 1-800-667-3852.

**NOTICE TO USER:** This control product is to be used only in accordance with the directions on this label. It is an offense under the Pest Control Products Act to use a control product under unsafe conditions.

**NOTICE TO BUYER:** Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

\*\*\*\*\*

This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.