

2018-05-29

2016-1149

(Container)



**Dow AgroSciences**

# Flumetsulam 75% WDG

## Herbicide

GROUP	2	HERBICIDE
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A selective herbicide for broadleaved weed control in hybrid field corn and soybeans in Eastern Canada only.

AGRICULTURAL

READ THE LABEL BEFORE USING  
KEEP OUT OF REACH OF CHILDREN

GUARANTEE: flumetsulam 75.0%

REGISTRATION NO. 24450 PEST CONTROL PRODUCTS ACT

NET CONTENTS: bulk kg

**Dow AgroSciences Canada Inc.**

2400, 215 – 2<sup>nd</sup> Street S.W.

Calgary, Alberta

T2P 1M4

1-800-667-3852

®Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

## PRECAUTIONS

Do not get in eyes or on clothing. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing vapours or spray mist and contact with skin, eyes or clothing.

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 spray 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.

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., refer to [www.croplife.ca/](http://www.croplife.ca/).

## PROTECTIVE CLOTHING AND EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment. If no such instructions for washables, use detergent and hot water. Keep and wash personal protective equipment separately from other laundry.

## OPERATOR USE PRECAUTIONS

When handling this product, users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the washroom.
- If herbicide penetrates clothing, remove immediately; 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 into 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 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.

## 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**

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application 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 between the treated area and the edge of the water body. 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.

**Buffer Zone:** Overspray or drift into important wildlife habitats such as shelterbelts, wetlands, woodlots, vegetated ditches, pond and lake banks and other cover on the edges of fields should be avoided. A 50 m buffer zone should be observed adjacent to aquatic habitats, such as streams, ponds, rivers and lakes.

Do not contaminate water when disposing of equipment washwaters.

Caution should be exercised when handling this product at mixing and loading sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placing of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

Do not contaminate water used for domestic purposes.

## **STORAGE**

Store in original container in a secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Keep away from food or feed. Do not store at temperatures above 50°C for extended periods of time. If the container is damaged or spill occurs, either use the clean product immediately or sweep up the spilled granules and dispose of as waste.

## **DISPOSAL**

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)



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Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body. 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.

**Buffer Zone:** Overspray or drift into important wildlife habitats such as shelterbelts, wetlands, woodlots, vegetated ditches, pond and lake banks and other cover on the edges of fields should be avoided. A 50 m buffer zone should be observed adjacent to aquatic habitats, such as streams, ponds, rivers and lakes.

Do not contaminate water when disposing of equipment washwaters.

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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**

Flumetsulam 75% WDG is a selective herbicide for the control of certain annual broadleaved weeds in hybrid field corn and soybeans. In hybrid field corn, Flumetsulam 75% WDG herbicide may be applied surface preplant, preplant incorporated, preemergence, early postemergence or postemergence depending on the formulation. In soybeans, Flumetsulam 75% WDG herbicide may be applied surface preplant, preplant incorporated or preemergence depending on the formulation. Flumetsulam 75% WDG herbicide is only registered for use in preformulated mixtures with other approved herbicides. For information on approved preformulated mixtures, refer to the individual end use product labels: Fieldstar™, Striker™, Broadstrike™, Treflan™ and Broadstrike™ Dual®.

Absorption of Flumetsulam 75% WDG herbicide occurs through both foliage and root uptake. Susceptible weeds exposed to Flumetsulam 75% WDG herbicide stop growing and either die or remain non-competitive with the crop. Because uptake and translocation of Flumetsulam 75% WDG herbicide involves uptake by both roots and/or foliage, adequate soil moisture is necessary for optimal activity.

FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE. READ ALL DIRECTIONS CAREFULLY BEFORE APPLYING.

#### **GENERAL USE PRECAUTIONS**

- **Soil Insecticides: Organophosphate granular insecticides must not be used on a corn crop to be treated with Striker or Fieldstar. Serious crop injury may occur.**
- **DO NOT APPLY FLUMETSULAM 75% WDG HERBICIDE BY AIR.**
- **Do not apply when weather conditions favour drift to non-target sites. To minimize spray drift to non-target areas:**
  1. Do not use nozzles that produce a fine spray droplet.
  2. Use sufficient spray volume to ensure adequate coverage with large droplet size sprays.
  3. Keep ground-driven spray boom as low as possible above the target surface.
  4. Spray when conditions are calm or wind speed is less than 10 km/hr.
- Adequate soil moisture is required for optimum herbicide activity of Flumetsulam 75% WDG herbicide. Surface preplant, preemergence or early postemergence applications of Flumetsulam 75% WDG herbicide require an activating rainfall which moistens the soil to a depth of at least 5 cm.
- Do not apply when air temperature is near freezing or when freezing conditions are expected for several days following time of application.
- Extended cold, wet conditions (soil temperatures below 10°C for extended periods) or abnormally high soil moisture conditions during emergence and early crop development can cause Flumetsulam 75% WDG herbicide injury symptoms on corn such as temporary yellowing of the leaves and/or crop stunting. Corn will quickly outgrow these symptoms once normal growing conditions resume.
- Over-application may result in crop injury or rotational crop damage from soil residues.
- Conditions such as seedling disease, cold weather, excessive moisture, compacted soils (such as along headlands) or eroded knolls or hillsides may increase the possibility of crop injury from Flumetsulam 75% WDG herbicide.
- Make only 1 application per year.
- Do not apply Flumetsulam 75% WDG herbicide to sweet corn, seed corn or popcorn.
- For use in corn at 67 g/ha, do not apply to areas where the soil pH is greater than 7.8 or where the soil organic matter is less than 2.0%.
- For use in soybeans at 93 g/ha, do not apply to areas where (both apply) the soil pH is greater than 7.8 and organic matter is less than 2% as this may result in decreased crop tolerance.
- Do not apply to peat or muck soils or where the soil organic matter is greater than 5%.
- Do not repeat application of Flumetsulam 75% WDG herbicide to the same field in the following season as there is a potential for residue build-up.

### **Sprayer Clean-up**

To avoid injury to or exposure of non-target crops, thoroughly clean and drain spray equipment used to apply Flumetsulam 75% WDG herbicide after use. Cleaning should occur as soon as possible after Flumetsulam 75% WDG herbicide application. All rinsate material should be collected in a suitable container and disposed of according to label directions (i.e. applying it to cropland to be planted to crops recommended on this label) or in a locally approved manner (see Disposal section). Spray equipment used to apply Flumetsulam 75% WDG herbicide should be cleaned after use by the following procedure:

1. Drain the sprayer tank.
2. Hose down the interior surfaces of the tank. Flush tank, hoses, boom and nozzles with clean water for 10 minutes. Fill the tank with water and recirculate for 15 minutes. Spray part of the mixture through the hoses, boom and nozzles and drain the tank.
3. Remove the nozzles and screens and clean them separately.
4. If the spray equipment will be used on crops other than field corn, repeat steps 1 and 2 again and thoroughly wash the spray mixture from the outside of spray tank and the boom.

### **ROTATIONAL CROP RESTRICTIONS**

When tank mixing with other herbicides, follow the most restrictive crop rotation guidelines on the label of each product used. The table below outlines the interval required between the application of Flumetsulam 75% WDG herbicide and the seeding of rotational crops.

<b>Crop</b>	<b>Crop Rotation Interval (months)</b>
winter wheat	4
spring wheat, spring barley, oats, soybeans, common beans (dry, snap), lima beans, processing peas, field corn, seed corn	10

Rotational crops except field corn and soybeans may sustain injury if dry conditions, not favourable to herbicide breakdown, persist following application of Flumetsulam 75% WDG.

Following application of Flumetsulam 75% WDG in a dry year, the risk of injury to rotational crops may increase in light-textured soils containing less than 2% organic matter because of a higher bioavailability of herbicide residues for plant uptake.

A field bioassay should be conducted before planting other crops not listed above. A successful field bioassay means growing to maturity a test strip of the crop(s) intended for production the following year.

### **Field Bioassay**

Using typical tillage, seeding practices, and timings for the particular crop, plant several strips of the desired crop across the field previously treated with Flumetsulam 75% WDG herbicide. Plant the strips perpendicular to the direction Flumetsulam 75% WDG herbicide was applied. The strips should also be located so that different field conditions are encountered, including soil texture, drainage and compacted areas. If the crop does not show visible symptoms of injury or stand reduction, the field can be seeded with the test crop in the growing season following the bioassay. If visible injury or stand reduction occurs, the test crop should not be seeded and the bioassay must be repeated the next growing season.

### **PREHARVEST/GRAZING INTERVAL**

Do not graze the treated corn crop prior to harvest for silage; sufficient data are not available to support such use.

Do not graze the treated soybean crop or cut for hay; sufficient data are not available to support such use.



## DIRECTIONS FOR USE

Flumetsulam 75% WDG herbicide is for use on hybrid field corn and soybeans. For information on end use product directions for use and approved tank mixtures, refer to the individual product labels: Fieldstar™, Striker™, Broadstrike™ Treflan™ and Broadstrike™ Dual®.

### Weeds Controlled in Corn at 67 g/ha by Flumetsulam 75% WDG Herbicide

velvetleaf	SPRE, PRE, PPI, early POST
redroot pigweed	SPRE, PRE, PPI, early POST
common lamb's-quarters	SPRE, PRE, PPI, early POST
Eastern black nightshade	SPRE, PRE, PPI

### Weeds Suppressed\* in Corn at 67 g/ha by Flumetsulam 75% WDG Herbicide

common ragweed	PRE, PPI
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### Weeds Controlled in Soybeans at 93 g/ha by Flumetsulam 75% WDG Herbicide

velvetleaf	SPRE, PRE, PPI
redroot pigweed	SPRE, PRE, PPI
common lamb's-quarters	SPRE, PRE, PPI
Eastern black nightshade	SPRE, PRE, PPI
common ragweed	SPRE, PRE, PPI

### Weeds Suppressed ▼ in Soybeans at 93 g/ha by Flumetsulam 75% WDG Herbicide

cocklebur	PRE, PPI
green foxtail	PRE, PPI
lady's-thumb	PPI, early POST

\*Weed suppression is a visual reduction in weed competition (reduced population, size and/or vigour) as compared to an untreated area.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests. **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitat by cleaning of equipment or disposal of wastes.

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) medium classification. Boom height must be 60 cm or less above the crop or ground.

**DO NOT** apply by air.

## CORN APPLICATION METHODS

### Surface Preplant Application (SPRE)

Flumetsulam 75% WDG herbicide in a tank-mix with Dual 960E<sup>1</sup> may be applied in minimum or no tillage systems up to 15 days before planting. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting or weed control will be diminished. Annual broadleaved weeds beyond the 2 leaf stage of growth will not be controlled by surface preplant applications.

### Preplant Incorporated Application (PPI)

Apply Flumetsulam 75% WDG herbicide in a tank-mix with Dual 960E up to 15 days before planting. Incorporate Flumetsulam 75% WDG herbicide in a uniform manner with equipment set to work at a depth of 5 to 8 cm. Use a C or S shank field cultivator equipped with a levelling device such as harrows or rolling basket attachment. The cultivator must have a minimum of 4 rows of sweeps spaced at 18 cm or less intervals and staggered so that no soil is left unturned. Tandem discs may also be used providing the blades are less than 50 cm in diameter and spaced 18 cm or less apart. Equipment design including any drag attachments must be adequate to avoid soil ridging which may result in streaked or reduced weed control. Operate disc implements at 6 to 10 km/hr and cultivators at 10 to 13 km/hr.

### **Preemergence Application (PRE)**

Preemergence applications may be made in conventional tillage as well as reduced tillage, ridge tillage and no-till systems. Apply Flumetsulam 75% WDG herbicide in a tank-mix with Dual 960E during (behind the planter) or after planting, but prior to crop or weed emergence. Adequate soil moisture is required for optimum herbicidal activity. Rainfall is necessary to move Flumetsulam 75% WDG herbicide into the weed germination zone. Sufficient rainfall to moisten the soil to a depth of 5 cm is generally adequate. If adequate rainfall is not received within 7 to 10 days after a surface application, a shallow cultivation or use of a rotary hoe is recommended to control established weeds and move the herbicide into the weed germination zone. When adequate rainfall is received following dry conditions, activity on established weeds will depend on the weed species and the location of its root system in the soil.

### **Early Postemergence Application (Early POST)**

Apply Flumetsulam 75% WDG herbicide as a broadcast application when corn is at the spike to 2 leaf stage of growth. Apply when broadleaved weeds are at the cotyledon to 2 leaf stage of growth. Application to larger weeds will result in reduced weed control. Adequate soil moisture is required for optimum herbicidal activity. Rainfall is necessary to move Flumetsulam 75% WDG into the weed germination zone for control of weeds not emerged at the time of application. Sufficient rainfall to moisten the soil to a depth of 5 cm is generally adequate. If adequate rainfall is not received within 7 to 10 days after an early postemergence application, a shallow cultivation is recommended to control established weeds and move the herbicide into the weed germination zone. When adequate rainfall is received following dry conditions, activity on established weeds will depend on the weed species and the location of its root system in the soil. **Do not apply Flumetsulam 75% WDG herbicide in liquid fertilizer solutions for early postemergence applications. Serious crop injury may occur.**

## **SOYBEAN APPLICATION METHODS**

### **Surface Preplant Application**

Flumetsulam 75% WDG herbicide in a tank-mix with Dual 960E and/or Roundup<sup>2</sup> may be applied in minimum or no tillage systems up to 21 days before planting. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting or weed control will be diminished. Annual broadleaved weeds beyond the two leaf stage of growth will not be controlled by surface preplant applications.

### **Preplant Incorporated Application**

Apply Flumetsulam 75% WDG herbicide in a tank-mix with Dual 960E or Treflan™ E.C. up to 21 days before planting. Flumetsulam 75% WDG tank-mixed with Treflan E.C. must be incorporated within 24 hours of application. Incorporate Flumetsulam 75% WDG herbicide in a uniform manner with equipment set to work at a depth of 5 to 8 cm. Use a C or S shank field cultivator equipped with a levelling device such as harrows or rolling basket attachment. The cultivator must have a minimum of 4 rows of sweeps spaced at 18 cm or less intervals and staggered so that no soil is left unturned. Tandem discs may also be used providing the blades are less than 50 cm in diameter and spaced 18 cm or less apart. Equipment design including any drag attachments must be adequate to avoid soil ridging which may result in streaked or reduced weed control. Operate disc implements at 6 to 10 km/hr and cultivators at 10 to 13 km/hr.

### **Preemergence Application**

Preemergence applications may be made in conventional tillage as well as reduced tillage, ridge tillage and no-till systems. Apply Flumetsulam 75% WDG herbicide in a tank-mix with Dual 960E during (behind the planter) or after planting, but prior to crop or weed emergence. Adequate soil moisture is required for optimum herbicidal activity. Rainfall is necessary to move Flumetsulam 75% WDG herbicide into the weed germination zone. Sufficient rainfall to moisten the soil to a depth of 5 cm is generally adequate. If adequate rainfall is not received within 7 to 10 days after a surface application, a shallow cultivation or use of a rotary hoe is recommended to control established weeds and move the herbicide into the weed germination zone. When adequate rainfall is received following dry conditions, activity on established weeds will depend on the weed species and the location of its root system in the soil.

The Pre-Harvest Interval (PHI) for soybean is 90 days.

## BUFFER ZONES

Use of the following spray methods or equipment **DOES NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

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

Method of Application	Crop	Buffer Zones (Metres) Required for the Protection of: Freshwater Habitat of Depths: less than 1 M	Buffer Zones (Metres) Required for the Protection of: Freshwater Habitat of Depths: greater than 1 M	Buffer Zones (Metres) Required for the Protection of: Terrestrial habitat
Fieldsprayer	Hybrid field corn	1	1	15
Fieldsprayer	Soybean	1	1	20

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

## WEED RESISTANCE MANAGEMENT

For resistance management, FLUMETSULAM 75% WDG HERBICIDE is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to FLUMETSULAM 75% WDG 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 FLUMETSULAM 75% WDG HERBICIDE or other Group 2 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 DOW AGROSCIENCES CANADA INC. at 1-800-667-3852 or at [www.dowagro.ca](http://www.dowagro.ca).

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<sup>1</sup> Dual is a registered trademark of Novartis.

<sup>2</sup> Roundup is a registered trademark of Monsanto Canada Inc.

<sup>3</sup> Elim EP, Muster, Pinnacle, Refine Extra and Ultim are registered trademarks of DuPont Canada Inc.

<sup>4</sup> Pursuit is a registered trademark of Cyanamid Canada Inc.

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