

PMRA Approved English Label  
Sub. No. 2020-0605 AO  
2020-03-31  
Updated from last approved label sub. No. 2019-5881 and 2019-10-23

|              |          |                  |
|--------------|----------|------------------|
| <b>GROUP</b> | <b>4</b> | <b>HERBICIDE</b> |
|--------------|----------|------------------|

### **ENSURE® Dry Flowable Herbicide**

For selective post-emergence control of green foxtail, cleavers, volunteer flax and barnyard grass in spring and durum wheat.

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION) ONLY

#### **COMMERCIAL (AGRICULTURAL)**

**ACTIVE INGREDIENT:** Quinclorac..... 75% DF

**REGISTRATION NO. 32138**

**PEST CONTROL PRODUCTS ACT**

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY INVOLVING THIS PRODUCT, CALL COLLECT, DAY OR NIGHT, 1-613-996-6666**

**CAUTION - SKIN IRRITANT  
POTENTIAL SKIN SENSITIZER**

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

**KEEP OUT OF REACH OF CHILDREN**

Farmer's Business Network Canada, Inc.  
PO Box 5607  
High River, Alberta  
Canada T1V 1M7

1-844-200-FARM (3276)

**Distributed by:**

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**NET CONTENTS:** 1.0 kg – 10 kg

## GENERAL INFORMATION

**ENSURE Dry Flowable Herbicide** is a dry flowable herbicide for selective post-emergence control of green foxtail (including Group 1 and Group 3 resistant biotypes), volunteer flax, cleavers, and barnyard grass in hard red spring, Canadian prairie spring, durum, Canada Western extra strong wheats.

**ENSURE Dry Flowable Herbicide** is a herbicide with mainly systemic action. Uptake into the plant occurs through both the foliage and root system. Thorough coverage of foliage is important for consistent weed control. Failure to penetrate crop or weed leaf canopies with the spray will result in inconsistent control of weeds growing underneath.

Visual symptoms of weed control of **ENSURE Dry Flowable Herbicide** may take up to two weeks following application to develop. These symptoms include initial twisting to stunting, reddening and chlorosis about 14 days followed by necrosis and death about 21 days after application. Even though **ENSURE Dry Flowable Herbicide** symptoms may take some time to develop, competition from the weeds treated with **ENSURE Dry Flowable Herbicide** is eliminated soon after application.

## DIRECTIONS FOR USE

### Application Rate and Timing for Wheat

DO NOT apply using aerial application equipment.

Apply **ENSURE Dry Flowable Herbicide** at 135-165 g/ha when weeds are small and actively growing. **ENSURE Dry Flowable Herbicide** will control the weeds at the timing detailed in **Table 1**. **ENSURE Dry Flowable Herbicide** can be applied to wheat at the maximum application rates and timing detailed in **Table 1**.

Use the 135 g/ha rate **ONLY** for control of volunteer flax, barnyard grass, cleavers, lighter infestations of green foxtail and *suppression of annual and perennial sow-thistle*. Use the higher rate of 165 g/ha for control of heavier infestations of green foxtail.

DO NOT apply **ENSURE Dry Flowable Herbicide** to any field more often than every second year. This practice must be respected in order to avoid potential injury to future rotational crops, to minimize the potential for carryover and accumulation of soil residues, and to reduce the selection pressure which could contribute to the development of resistant biotypes.

Early treatment of weeds with **ENSURE Dry Flowable Herbicide** is important to maximize crop yield potential through elimination of early weed competition. Some initial crop injury may be observed after application, but this is usually outgrown and should not affect crop yield.

**TABLE 1: WEED APPLICATION TIMING TABLE**

| WEED           | RANGE                         |
|----------------|-------------------------------|
| Green foxtail  | 1 - 5 leaf<br>(max 2 tillers) |
| Volunteer flax | 1 - 8 cm.                     |
| Cleavers       | 1 - 3 whorls                  |
| Barnyard grass | 1 - 5 leaf                    |

|                          |            |
|--------------------------|------------|
| <b>CROP</b>              |            |
| Wheat (spring and durum) | 1 - 5 leaf |

All leaf stages listed above refer to true leaves.

## SPRAYING INSTRUCTIONS

### Ground Application

Use sprayers equipped with standard flat fan pesticide nozzles with a spray volume of 100 L/ha at a constant pressure of 275-425 kPa. Tilt spray nozzles 45 degrees forward to ensure better coverage. The use of 50 mesh strainers and screens is recommended.

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

### ADDITIVES

Always use **MERGE** adjuvant at 1.0% v/v for optimum performance of **ENSURE Dry Flowable Herbicide**.

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

### TANK MIX COMBINATIONS:

For the appropriate rate of **ENSURE Dry Flowable Herbicide**, refer to the Application Rate and Timing section of the label.

### Broadleaf Weed Control

Although **ENSURE Dry Flowable Herbicide** provides control of several broadleaf weeds, a tank mix with a broadleaf compound is required to give broad spectrum broadleaf weed control in wheat.

For additional control of broadleaf weeds in wheat, **ENSURE Dry Flowable Herbicide** can be tank mixed with any of the broadleaf herbicides listed in **Table 2**. When tank mixing **ENSURE Dry Flowable Herbicide** with these broadleaf herbicides, a slight reduction in control of green foxtail may be observed. The level of green foxtail control may be improved by using the 165 g/ha rate of **ENSURE Dry Flowable Herbicide** in the tank mixture.

Refer to **Table 2** for appropriate use rates and timing of crop applications. Always refer to the broadleaf herbicide or tank mix partner label(s) for additional precautions, restrictions, use instructions and recropping information.

### Wild Oat Control

For control of wild oats when populations are between 1-200 plants per square metre and certain broadleaf weeds, **ENSURE Dry Flowable Herbicide** can be tank mixed with **AVENGE 200-C** herbicide at the rate of 3.5 L/ha and one of the broadleaf herbicides as listed in **Table 2**. USE ONLY ON SPRING WHEAT VARIETIES LISTED ON THE **AVENGE 200-C** HERBICIDE LABEL.

AVENGE 200-C herbicide can cause some crop injury. Refer to the Table 2 for appropriate use rates and timing of crop application. Always refer to both the AVENGE 200-C herbicide and the broadleaf herbicide label for additional precautions, restrictions and use instructions.

**TABLE 2: TANK MIX OPTIONS FOR ENSURE DRY FLOWABLE HERBICIDE ON WHEAT**

| Crop                     | ENSURE Rate (g/ha) | Tank Mix Partner                                      | Rate                      | Crop Stage | Weeds Controlled  |
|--------------------------|--------------------|---|---------------------------|------------|---|
| Wheat (spring and durum) | 135-165            | <b>Buctril M</b>                                      | 1.0 L/ha                  | 2-5 leaf   | <b>ENSURE Dry Flowable Herbicide</b> - see Table 1.<br><br>Broadleaf weeds listed on <b>Buctril M</b> label.  |
|                          |                    | <b>2,4-D Amine</b> (assume 500 series)                | 0.840-1.1 L/ha            | 3-5 leaf   | <b>ENSURE Dry Flowable Herbicide</b> - see Table 1.<br>Broadleaf weeds listed on <b>2,4-D Amine</b> label.  |
|                          |                    | <b>2,4-D Ester</b> (assume 500 series)                | 0.840-1.1 L/ha            | 4-5 leaf   | <b>ENSURE Dry Flowable Herbicide</b> - see Table 1.<br>Broadleaf weeds listed on <b>2,4-D Ester</b> label.  |
|                          |                    | <b>MCPA Amine</b> (assume 500 series)                 | 0.840-1.1 L/ha            | 3-5 leaf   | <b>ENSURE Dry Flowable Herbicide</b> - see Table 1. Broadleaf weeds listed on <b>MCPA Amine</b> label.  |
|                          |                    | <b>MCPA Ester</b> (assume 500 series)                 | 0.840-1.1 L/ha            | 3-5 leaf   | <b>ENSURE Dry Flowable Herbicide</b> - see Table 1. Broadleaf weeds listed on <b>MCPA Ester</b> label.  |
|                          |                    | <b>Refine Extra<sup>1</sup></b>                       | 20 g/ha                   | 2-5 leaf   | <b>ENSURE Dry Flowable Herbicide</b> - see Table 1. Broadleaf weeds listed on <b>Refine Extra</b> label.  |
|                          |                    | <b>Express Pack<sup>1</sup></b> (Express + 2,4-D)     | 10 g/ha + 0.625 L/ha      | 3-5 leaf   | <b>ENSURE Dry Flowable Herbicide</b> - see Table 1. Broadleaf weeds listed on <b>Express Pack</b> label.  |
| Wheat (spring only)      | 135-165            | <b>Avenge 200-C</b>                                   | 3.5 L/ha                  | 1-5 leaf   | <b>ENSURE Dry Flowable Herbicide</b> - see Table 1. Wild oats as listed on <b>Avenge 200-C</b> label.   |
|                          |                    | <b>Avenge 200-C + Buctril M</b>                       | 3.5 L/ha + 1.0 L/ha       | 2-5 leaf   | <b>ENSURE Dry Flowable Herbicide</b> - see Table 1. Broadleaf weeds listed on <b>Buctril M</b> label. Wild oats as listed on <b>Avenge 200-C</b> label.   |
|                          |                    | <b>Avenge 200-C + 2,4-D Ester</b> (assume 500 series) | 3.5 L/ha + 0.840-1.1 L/ha | 4-5 leaf   | <b>ENSURE Dry Flowable Herbicide</b> - see Table 1. Broadleaf weeds listed on <b>2,4-D Ester</b> label. Wild oats as listed on <b>Avenge 200-C</b> label. |
|                          |                    | <b>Avenge 200-C + MCPA Ester</b> (assume 500 series)  | 3.5 L/ha + 0.840-1.1 L/ha | 3-5 leaf   | <b>ENSURE Dry Flowable Herbicide</b> - see Table 1. Broadleaf weeds listed on <b>MCPA Ester</b> label. Wild oats as listed on <b>Avenge 200-C</b> label.  |
|                          |                    | <b>Avenge 200-C + Refine Extra<sup>1</sup></b>        | 3.5 L/ha + 20 g/ha        | 2-5 leaf   | <b>ENSURE Dry Flowable Herbicide</b> -see Table 1. Broadleaf weeds listed on <b>Refine</b>  |

Extra label.  
Wild oats as listed on **Avenge 200-C** label.

<sup>1</sup>Addition of surfactants other than Merge adjuvant is not required.

Do not delay spraying broadleaf weeds if grassy weeds are not in the correct stage for treatment. If green foxtail, wild oats and broadleaf weeds are not in the correct stages for treatment, apply separate applications of each herbicide timed to control the required spectrum of weeds. Use **MERGE** adjuvant only with all tank mixtures.

## RECROPPING

Due to the residual activity of **ENSURE Dry Flowable Herbicide** in the soil, land treated with **ENSURE Dry Flowable Herbicide** cannot be rotated to crops other than specified in **Table 3**. To avoid injury to rotational crops, the minimum recropping intervals in **Table 3** must be followed.

**TABLE 3: MINIMUM RECROPPING INTERVALS**

| CROP                                  | MINIMUM RECROPPING INTERVAL (Months) | NOTES   |
|---------------------------------------|--------------------------------------|---|
| Wheat* (spring, durum) Spring barley* | 0                                    | These crops can be re-planted in the same season as <b>ENSURE Dry Flowable Herbicide</b> applications.                          |
|                                       | 0                                    |   |
| Field peas<br>Sunflowers              | 10<br>10                             | These crops and the crops listed above can be planted the year following application of <b>ENSURE Dry Flowable Herbicide</b> .  |
| Flax<br>Lentils                       | 10<br>10                             | These crops and the crops listed above can be planted two years following application of <b>ENSURE Dry Flowable Herbicide</b> . |

\*In the event of crop failure, only spring or durum wheat or spring barley may be reseeded in fields treated with **ENSURE Dry Flowable Herbicide**.

**ENSURE Dry Flowable Herbicide should not be used on land where potatoes or vegetables are part of the rotation.**

The company recommends that a field bioassay (a test strip grown to maturity) be conducted the year before growing any crops other than those listed in **Table 3**.

On lighter soils with low organic matter or under dry conditions, some crop injury may occur particularly in flax and lentils but will not reduce yield. Under these conditions, the minimum recropping interval for flax and lentils should be extended by 12 months.

**Refer to the broadleaf or AVENGE 200-C herbicide label for specific additional recropping restrictions.**

## RESTRICTIONS AND LIMITATIONS

1. Do not apply **ENSURE Dry Flowable Herbicide** when weather conditions may cause spray drift from treated areas to adjacent crops. Certain crops such as alfalfa, clover species, fababeans, flax, lentils, ornamentals, potatoes and vegetables will be injured by spray drift of **ENSURE Dry Flowable Herbicide**.
2. Do not treat any crops other than wheat.
3. Do not apply **ENSURE Dry Flowable Herbicide** to wheat under seeded to forages.
4. Do not apply **ENSURE Dry Flowable Herbicide** to wheat that has been subjected to stress from conditions such as frost, hail damage, flooding, drought, extended cold period, etc.
5. Rainfall within 6 hours after application may reduce effectiveness of spray.
6. When **ENSURE Dry Flowable Herbicide** is applied beyond the recommended growth stages, limited crop injury and/or unsatisfactory weed control may result.
7. Cool weather conditions or drought will delay **herbicide** activity and if prolonged, may result in poor weed control.
8. Do not use **ENSURE Dry Flowable Herbicide** with additives, pesticides or fertilizers not specifically recommended on this label.
9. Allow 4 days between application of **ENSURE Dry Flowable Herbicide** and any other chemical not recommended as a tank mix combination on this label.
10. **ENSURE Dry Flowable Herbicide** must not be applied within 77 days of harvest of wheat.
11. Apply using ground equipment only. DO NOT apply using aerial application equipment.
12. Overspray or drift into important wildlife habitats such as shelterbelts, wetlands, woodlots, vegetated ditch, ponds and lake banks and other cover on the edges of fields should be avoided. A 10-metre buffer zone should be observed adjacent to aquatic habitats such as streams, ponds, rivers and lakes and to areas that drain into these habitats. When a tank mixture is used, consult the label of the tank mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.
13. Do not graze the treated crops or cut for hay within 77 days of application.
14. 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.

**Buffer Zones for the Protection of Terrestrial Habitats from Spray Drift of Quinclorac**

| Method of application | Crop                                | Buffer Zones (metres) Required for the Protection of Terrestrial Habitats |
|-----------------------|-------------------------------------|---|
| Field Sprayer         | Durum and spring wheat, canary seed | 4   |

|  |          |
|--|----------|
| <p>Spring barley</p> <p>Canola - Brassica napus (conventional, Clearfield, LibertyLink and Roundup Ready varieties),</p> <p>Canola - Brassica juncea (conventional, Clearfield, LibertyLink and Roundup Ready varieties) and Tame mustard (brown and oriental)</p> | <p>3</p> |
|--|----------|

SPECIMEN

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 labels for those tank mix partners.

## MIXING

1. Thoroughly clean the sprayer prior to use. For appropriate cleaning instructions, refer to the label of the product sprayed previous to application of **ENSURE Dry Flowable Herbicide**.
2. Fill the clean spray tank half full with clean water. Start agitation or by-pass system. Agitation should be running during the entire mixing procedure.
3. Add the correct amount of **ENSURE Dry Flowable Herbicide** and agitate 2 to 3 minutes.
4. Add the correct amount of broadleaf herbicide, followed by **AVENGE 200-C** herbicide, if required. When mixing **ENSURE Dry Flowable Herbicide** with **EXPRESS PACK**, **EXPRESS** herbicide must be completely in suspension in the spray tank prior to adding **2,4-D** herbicide.

**NOTE:** On repeat tank loads of either **EXPRESS PACK** or **REFINE EXTRA** herbicide, prepare an **EXPRESS**/water or **REFINE**/water slurry in a separate container with clean water before adding to the spray tank.

5. Add the correct amount of **MERGE** adjuvant and agitate 2 to 3 minutes.
6. Add remainder of water to the spray tank and maintain sufficient agitation during mixing and spraying to ensure a uniform spray mixture.
7. For sprayer clean-up, refer to the sprayer clean-up section.
8. Consult the broadleaf or **AVENGE 200-C** herbicide label for additional application instructions, use precautions and recropping information.

## SPRAYER CLEAN-UP

Certain crops such as alfalfa, clover species, fababeans, flax, lentils, ornamentals, potatoes, tomatoes and vegetables are particularly sensitive to **ENSURE Dry Flowable Herbicide**. To avoid injury to subsequent crops other than wheat, the sprayer should be thoroughly cleaned immediately after use and prior to spraying other crops by performing the following steps:

1. Following spray application, drain any remaining spray solution, then flush the tank, boom and hoses with clean water until any visible residues are removed. (Repeat step 1, if necessary.) **DO NOT CLEAN SPRAYER NEAR DESIRABLE VEGETATION OR NEAR WELL OR WATER SOURCE.**
2. Completely fill spray tank with clean water while adding 1 litre of household ammonia (containing 3% ammonia) per 100 litres of water or a commercially licensed tank cleaner such as **FINNISH**<sup>®</sup>. Reduce the amount of ammonia added proportionally if higher concentrations (%) of ammonia are used. Flush the solution through the boom and nozzles and then add more water to completely refill the tank. Agitate the solution for at least 15 minutes and then flush the boom and nozzles until the spray tank is empty.



3. Remove the nozzles and screens and clean separately in a bucket containing a cleaning agent and water.
4. Repeat step 2.
5. Thoroughly rinse the tank with clean water and flush the water through the boom.

## RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, **ENSURE Dry Flowable Herbicide** is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to **ENSURE Dry Flowable 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 **ENSURE Dry Flowable Herbicide** or other Group 4 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 Farmer's Business Network Canada, Inc. at 1-844-200-FARM (3276).

## PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. May irritate the skin. Avoid contact with skin.
3. Potential Skin Sensitizer.
4. Wash thoroughly after handling and before eating, drinking or smoking.
5. Wear protective equipment and clothing, including goggles or face shield, gloves (rubber, PVC, neoprene or nitrile), hat, long-sleeved shirt, trousers and rubber boots during mixing, loading,

application, clean-up and repair activities.

6. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
7. Clean spray equipment thoroughly after use. Refer to sprayer clean-up section.
8. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
9. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
10. 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.

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., visit CropLife Canada's web site at [www.croplife.ca](http://www.croplife.ca).

## ENVIRONMENTAL PRECAUTIONS

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

### LEACHING

This product demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of quinclorac in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

### RUN-OFF

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or clay.

Avoid application when heavy rain is forecast.

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

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

## TOXICOLOGICAL INFORMATION

Treat symptomatically.

## STORAGE

1. Store in original, tightly-closed container.
2. Do not ship or store near food, feed, seed or fertilizers.
3. Store in cool, dry, locked, well-ventilated area without floor drain.
4. Herbicides should be shipped or stored separately from other pesticides to avoid cross-contamination.
5. Freezing will not harm **ENSURE Dry Flowable Herbicide**. Should product freeze, warm to room temperature prior to use.

## DISPOSAL

1. Follow provincial instruction for any required cleaning of the container prior to its disposal.
2. Make the empty container unsuitable for further use.
3. Dispose of the container in accordance with provincial requirements.
4. 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.

MERGE® is a registered trademark of BASF Canada Inc.

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6. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
7. Clean spray equipment thoroughly after use. Refer to sprayer clean-up section.
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## TOXICOLOGICAL INFORMATION

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