

# UNITY 280 EC

## EMULSIFIABLE SELECTIVE WEEDKILLER



GROUP	<b>6</b>	HERBICIDE
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CONTAINS BROMOXYNIL

FOR SALE FOR USE IN ALBERTA AND SASKATCHEWAN ONLY

FOR POST-EMERGENCE USE ON  
SPRING WHEAT, DURUM WHEAT AND BARLEY

### AGRICULTURAL

**GUARANTEE:** BROMOXYNIL (present as an ester) .... 280 g/L

REGISTRATION NO. 24497  
PEST CONTROL PRODUCTS ACT

WARNING



POISON

**READ THE LABEL AND BOOKLET BEFORE USING**

**Bayer CropScience Inc.**  
Suite 100, 3131 114 Avenue SE  
Calgary, AB T2Z 3X2  
**Telephone: 1-888-283-6847**

IN CASE OF SPILLS, POISONING OR FIRE TELEPHONE EMERGENCY RESPONSE  
NUMBER TOLL-FREE 1-800-334-7577 (24 HOURS A DAY).

NET CONTENTS: 4 LITRES

## **PRECAUTIONS:**

**KEEP OUT OF REACH OF CHILDREN.** Avoid contact with skin, eyes and clothing. Wash concentrate from skin or eyes immediately. Avoid breathing spray mist. After use wash hands and other exposed skin. All handlers must wear a long-sleeved shirt and long pants. In addition, wear a chemical-resistant apron during mixing/loading activities. Wear chemical resistant nitrile gloves (e.g. Edmont Sol-Vex #37-155/#37-145 or Pioneer A-15) which are in good condition when mixing/loading, spraying, and during clean-up and repair. Applicators using a closed cab are not required to wear chemical resistant gloves. **DO NOT** apply this product in a way that this product will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the area being treated during application. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. Avoid spray drift onto crops other than those recommended. 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 website at: [www.croplife.ca](http://www.croplife.ca).

**DO NOT APPLY BY AIR**

**GRAZING INTERVALS:** (wheat, barley) - Do not use treated cereals for grazing of livestock or green feed until 30 days after application of UNITY 280 EC Emulsifiable Selective Weedkiller unless otherwise indicated on the label. Do not cut treated cereals for forage until 30 days after application of UNITY 280 EC Emulsifiable Selective Weedkiller unless otherwise indicated on the label.

## **ENVIRONMENTAL HAZARDS:**

**TOXIC** to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under **DIRECTIONS FOR USE** in booklet. Avoid contamination of ponds, streams, rivers and other water sources. This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. **DO NOT** contaminate these systems through direct application, disposal of waste or cleaning equipment.

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

## **FIRST AID:**

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

If swallowed: call a poison control centre or doctor immediately for treatment advice.

Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

If in eyes: hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If 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 treatment advice.

### **TOXICOLOGICAL INFORMATION:**

Medical Personnel should contact Bayer's Medical Information Services, Toll-Free: 1-800-334-7577. This product contains a petroleum distillate. Vomiting may cause aspiration pneumonia.

### **STORAGE CONDITIONS:**

UNITY 280 EC Emulsifiable Selective Weedkiller will solidify at temperatures below - 20°C but will become useable again at temperatures above 0°C. **SHAKE WELL BEFORE USING.** Store the container tightly closed away from seeds, feeds, fertilizer, plants and foodstuffs. Insecticides and fungicides should be segregated from herbicides so as to prevent the possibility of cross-contamination.

### **RECYCLABLE CONTAINER DISPOSAL:**

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.

### **DISPOSAL OF UNUSED, UNWANTED PRODUCT:**

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 cleanup of spills.

### **NOTICE TO USER:**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.



Bayer CropScience

**UNITY 280 EC**  
**EMULSIFIABLE SELECTIVE WEEDKILLER**



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**DO NOT APPLY BY AIR**

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## **ENVIRONMENTAL HAZARDS:**

**TOXIC** to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under **DIRECTIONS FOR USE**. Avoid contamination of ponds, streams, rivers and other water sources. This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. **DO NOT** contaminate these systems through direct application, disposal of waste or cleaning equipment. **Runoff :** To reduce runoff from treated areas into aquatic habitats, consider the characteristics/conditions of the site before treatment. Site characteristics/conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic matter). It is recommended that this product not be applied when heavy rain is forecast. Potential for contamination of aquatic areas as a result of runoff may be reduced by inclusion of a vegetative strip between the treated area and the edge of the water body.

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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 treatment advice.

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### **STORAGE CONDITIONS:**

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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 cleanup of spills.

### **NOTICE TO USER:**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

## GENERAL INFORMATION:

UNITY 280 EC Emulsifiable Selective Weedkiller tankmixed with Unity 75WG is recommended for post-emergent use on spring wheat, durum wheat and barley and can be used in the dark brown, and brown soils of Alberta and Saskatchewan, and the black soil zones of Alberta.

UNITY 280 EC Emulsifiable Selective Weedkiller must **only** be used when tankmixed with Unity 75WG and with a recommended surfactant.

The UNITY 280 EC Emulsifiable Selective Weedkiller and Unity 75WG tankmix is absorbed through the leaves of emerged weeds and is rapidly translocated to the weeds' growing points. Thorough coverage of the weeds is essential for effective control. Visual symptoms (discolouration) take 1-3 weeks to appear, depending on the weed species and growing conditions. Death of weeds usually occurs 3-4 weeks after post-emergent application. Adequate control may not be achieved under unfavourable environmental conditions such as drought, flooding, prolonged temperature extremes or insufficient fertility.

For precautions, limitations, use precautions, weed resistance, resistant weed management, storage conditions and sprayer clean-up instructions, refer to the Unity 75 WG label included in the **Unity Herbicide Tankmix** pack.

Some crops have shown a high sensitivity to low residues of Unity 75 WG in the soil. To avoid injury to subsequent crop, refer to the Unity 75 WG booklet included in the **UNITY Herbicide Tankmix** pack for Recropping and Bioassay guidelines.

Overspray or drift to important wildlife habitats such as shelterbelts, wetlands, sloughs or dry slough borders, water bodies and woodlots should be avoided.

## DIRECTIONS FOR USE:

**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.

**BUFFER ZONES:** Use of the following spray methods or equipment DO NOT require a buffer zone: hand-held or backpack sprayer, inter-row hooded sprayer, spot treatment, soil drench and soil incorporation.

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, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine / Marine Habitats of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field Sprayer*	All crops	1	1	1	1	1

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

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

### **UNITY HERBICIDE TANKMIX:**

#### **Unity 280 EC Emulsifiable Selective Weedkiller + Unity 75 WG Tankmixture**

**Crops:** Spring Wheat, Durum Wheat and Barley. Do not apply this tank-mix to spring wheat underseeded to legumes.

**Application Timing:** Apply to the 2-leaf stage to just prior to flag leaf. Apply UNITY 280 EC Emulsifiable Selective Weedkiller tankmixed with Unity 75WG and a recommended surfactant when the crop is in the two-leaf stage to just prior to the appearance of the flag leaf and before the crop canopy prevents thorough coverage of target weeds. Apply only once per season.

**Weed Staging:** Two to four leaf stage (two pairs of true leaves).

**Application Rates:** Unity 75WG at 10.7 g/ha (1 soluble bag treats 4 ha or 10 acres; 1 package containing 2 soluble bags treats 8 ha or 20 acres) plus UNITY 280 EC Emulsifiable Selective Weedkiller at 500 mL/ha (1 jug treats 8 ha or 20 acres) plus a recommended surfactant at 0.25% v/v (2.5 L for each 1,000 L of spray mixture). Do not apply if rain is expected within two hours.

**Weeds Controlled:** Annual smartweed (green smartweed & lady's thumb), chickweed, cleavers, cow cockle, flixweed, hempnettle, kochia, lamb's quarters, redroot pigweed, shepherd's purse, stinkweed, volunteer canola, wild buckwheat, wild mustard.



## MIXING AND SPRAYING INSTRUCTIONS (GROUND APPLICATION ONLY)

### DO NOT APPLY BY AIR

**Water Volume:** 100 litres per hectare. Do not use liquid fertilizer as a carrier for this tankmix application because it may prevent the Unity 75WG water soluble bags from dissolving properly.

**Spray Pressure:** 275 kPa

**Spray Nozzles:** Flat Fan with 50 mesh screens or larger.

**Surfactant:** Always use a surfactant with this tankmix application unless otherwise indicated on the label. Use a recommended non-ionic surfactant such as Agral 90, Ag-Surf, Citowett Plus, Super Spreader-Sticker or Companion agricultural adjuvant at 0.25% v/v (2.5 L for each 1,000 L of spray mixture).

### Filling the Tank:

1. Ensure that the sprayer is totally clean.
2. Fill the spray tank one-quarter full with water. Engage gentle jet agitation. On sprayers with by-pass agitation, the agitation should not be engaged until the water soluble bags are completely dissolved. Otherwise, undissolved bags can become lodged on the main screen.
3. Ensure that the agitation system is working properly and that it creates a rippling or rolling action on the water surface.
4. Add the appropriate number of Unity 75 WG water soluble bags directly into the spray tank. Do not touch water soluble bags with wet gloves. Allow six (6) minutes for complete mixing. Add the required amount of UNITY 280 EC Emulsifiable Selective Weedkiller to the spray tank. Allow a further two (2) minutes for complete mixing. Longer mixing time may be required due to cold water or if the water soluble bags are brittle.
5. Continue agitation while completing the filling of sprayer; then add a recommended surfactant at 0.25% v/v (2.5 L for each 1000 L of water). Ensure Unity 75 WG is completely in suspension before spraying.
6. Continuous agitation is required to keep Unity 75 WG in suspension. Do not allow the spray mixture to stand without agitation.
7. Use the spray suspension as soon as it is prepared.

## **PUMA AND UNITY HERBICIDE TANKMIX:**

**Spring Wheat (including Durum) not underseeded to legumes:** **UNITY Herbicide Tankmix** may be mixed with PUMA for control of certain broadleaf and grassy weeds in spring and durum wheat in one spray operation. Follow all use directions, precautions, limitations and timing recommendations on the PUMA label.

DO NOT APPLY BY AIR. For ground application only.

**Time of Application:** Spring wheat may be treated from the 2 - 6 leaf-stage through tillering (maximum 3 tillers). Application beyond the 6-leaf stage of spring wheat and durum wheat may result in crop injury. Apply when the annual grassy weeds are in the 1 - 6 leaf stage of growth, up to the emergence of the third tiller. Apply when broadleaf weeds are in the 2 - 4 leaf-stage (two pairs of true leaves).

**Water Volume & Pressure:** Apply in a minimum of 100 litres of water per hectare at a spray pressure of 275 kPa.

**Application Rates:** 1.0 L/ha of PUMA tank-mixed with **UNITY Herbicide Tankmix** (UNITY 280 EC Emulsifiable Selective Weedkiller at 500 mL/ha , and Unity 75 WG at 10.7 g/ha). This tankmix application does not require the use of a surfactant.

**Weeds Controlled:** All annual grass weeds found on the PUMA label and all broadleaf weeds as listed for UNITY Herbicide Tankmix.

DO NOT APPLY THIS TANK MIXTURE WITHIN 65 DAYS OF HARVEST

**CAUTION:** Do not graze the treated crops or cut for hay; sufficient data are not available to support such use.

### **MIXING INSTRUCTIONS:**

1. Thoroughly clean the sprayer by flushing the system with water containing detergent.
2. Fill clean spray tank half full with clean water. Start agitation system.
3. If tank-mixing PUMA with **UNITY Herbicide Tankmix** for once over grass and broadleaf weed control in wheat add the correct amount of UNITY 75 WG and UNITY 280 EC Emulsifiable Selective Weedkiller. Add the appropriate number of UNITY 75 WG water soluble bags directly into spray tank. Do not touch water soluble bags with wet gloves. Allow six (6) minutes for complete mixing. Add the required amount of UNITY 280 EC Emulsifiable Selective Weedkiller to the spray tank. Allow a further two (2) minutes for complete mixing. Longer mixing time may be required due to cold water or if the water soluble bags are brittle.
4. Add the correct amount of PUMA. Continue to agitate.
5. Continue agitation while completing the filling of the spray tank. Ensure UNITY 75 WG is completely in suspension before spraying.

6. Continuous agitation is required to keep UNITY 75 WG in suspension. Do not allow the spray mixture to stand without agitation.
7. Use the spray suspension as soon as it is prepared.
8. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

## **UNITY & PUMA SUPER HERBICIDE TANKMIX:**

**Spring Wheat only not underseeded to legumes:** UNITY Herbicide Tankmix may be mixed with PUMA SUPER for control of certain broadleaf and grassy weeds in spring wheat in one spray operation. Do not apply PUMA SUPER to any field more often than once per year. Follow all use directions, precautions, limitations and timing recommendations on the PUMA SUPER label. **DO NOT APPLY ON DURUM WHEAT**

**DO NOT APPLY BY AIR.** For ground application only.

**Time of Application:** Spring wheat may be treated from the 2 - 6 leaf-stage through tillering (maximum 3 tillers). Application beyond the 6-leaf stage of spring wheat may result in crop injury. Apply when the annual grassy weeds are in the 1 - 6 leaf stage of growth, up to the emergence of the third tiller. Apply when broadleaf weeds are in the 2 - 4 leaf-stage (two pairs of true leaves).

**Water Volume & Pressure:** Apply in a minimum of 100 litres of water per hectare at a spray pressure of 275 kPa.

**Application Rates:** 1.0 L/ha of PUMA SUPER tank-mixed with **UNITY Herbicide Tankmix** (UNITY 280 EC Emulsifiable Selective Weedkiller at 500 mL/ha , and Unity 75 WG at 10.66 g/ha). This tankmix application does not require the use of a surfactant.

**Weeds Controlled:** All annual grass weeds found on the PUMA SUPER label and all broadleaf weeds as listed for UNITY Herbicide Tankmix.

**DO NOT APPLY THIS TANK MIXTURE WITHIN 65 DAYS OF HARVEST**

**CAUTION:** Do not graze the treated crops or cut for hay; sufficient data are not available to support such use.

## **MIXING INSTRUCTIONS:**

1. Thoroughly clean the sprayer by flushing the system with water containing detergent.
2. Fill clean spray half full with clean water. Start agitation system.
3. If tank-mixing PUMA SUPER with **UNITY Herbicide Tankmix** for once over grass and broadleaf weed control in wheat add the correct amount of UNITY 75 WG and UNITY 280 EC Emulsifiable Selective Weedkiller. Add the appropriate number of UNITY 75 WG water soluble bags directly into spray tank. Do not touch water soluble bags with wet gloves.

Allow six (6) minutes for complete mixing. Add the required amount of UNITY 280 EC Emulsifiable Selective Weedkiller to the spray tank. Allow a further two (2) minutes for complete mixing. Longer mixing time may be required due to cold water or if the water soluble bags are brittle. Triple rinse the emptied containers into the spray tank.

4. Add the correct amount of PUMA SUPER. Continue to agitate.
5. Continue agitation while completing the filling of the spray tank. Ensure UNITY 75 WG is completely in suspension before spraying.
6. Continuous agitation is required to keep UNITY 75 WG in suspension. Do not allow the spray mixture to stand without agitation or to stand overnight.
7. Use the spray suspension as soon as it is prepared.
8. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

### **LONTREL\* 360 & UNITY HERBICIDE TANKMIX:**

\*LONTREL is a registered trademark of Dow AgroSciences

**NOTE:** Follow all mixing and spraying precautions, limitations and timing recommendations on the LONTREL 360 label.

### **SPRING WHEAT (excluding durum) AND BARLEY:**

**Time of Application:** Spring wheat and barley (not underseeded with other crops) may be treated from the 3-leaf to the emergence of the flag leaf.

**Spray Volume & Pressure:** Apply in NOT LESS than 100 litres of water per hectare at a pressure of 275 kPa.

**Application Rates: UNITY Herbicide Tankmix** (UNITY 75WG at 10.7 g/ha [1 soluble bag treats 4 ha or 10 acres; 1 package containing 2 soluble bags treats 8 ha or 20 acres] plus UNITY 280 EC Emulsifiable Selective Weedkiller at 500 mL/ha [1 jug treats 8 ha or 20 acres]) plus LONTREL 360 at 280 mL/ha plus a recommended surfactant at 0.25% v/v (2.5 L for each 1,000 L of spray mixture).

**NOTE:** Add the appropriate number of UNITY 75 WG water soluble bags directly into the spray tank. Do not touch water soluble bags with wet gloves. Allow six (6) minutes for complete mixing. Add the required amount of UNITY 280 EC Emulsifiable Selective Weedkiller to the spray tank. Add the required amount of LONTREL 360. Allow a further two (2) minutes for complete mixing. Longer mixing time may be required due to cold water or if the water soluble bags are brittle. Continue agitation while completing the filling of sprayer; then add a recommended surfactant at 0.25% v/v (2.5 L for each 1000 L of water).

## **WEEDS CONTROLLED:**

As listed for **UNITY Herbicide Tankmix** alone at the recommended rate and growth stage, plus suppression of Canada thistle. For best results, Canada thistle should be in the rosette to pre-bud stage.

DO NOT APPLY THIS TANK MIX BY AIR.

## **MCPA ESTER & UNITY HERBICIDE TANKMIX:**

**NOTE:** Follow all mixing and spraying precautions, limitations and timing recommendations on the MCPA Ester label.

## **SPRING WHEAT AND BARLEY:**

**Time of Application:** Spring wheat and barley (not underseeded with other crops) may be treated from the 2-leaf to just prior to the appearance of the flag leaf.

**Spray Volume & Pressure:** Apply in NOT LESS than 100 litres of water per hectare at a pressure of 275 kPa.

**Application Rates:** **UNITY Herbicide Tankmix** (UNITY 75WG at 10.7 g/ha [1 soluble bag treats 4 ha or 10 acres; 1 package containing 2 soluble bags treats 8 ha or 20 acres] plus UNITY 280 EC Emulsifiable Selective Weedkiller at 500 mL/ha [1 jug treats 8 ha or 20 acres]) plus MCPA Ester at 420 g ai/ha plus a recommended surfactant at 0.25% v/v (2.5 L for each 1,000 L of spray mixture).

**NOTE:** Add the appropriate number of UNITY 75 WG water soluble bags directly into the spray tank. Do not touch water soluble bags with wet gloves. Allow six (6) minutes for complete mixing. Add the required amount of UNITY 280 EC Emulsifiable Selective Weedkiller to the spray tank. Add the required amount of MCPA Ester. Allow a further two (2) minutes for complete mixing. Longer mixing time may be required due to cold water or if the water soluble bags are brittle. Continue agitation while completing the filling of sprayer; then add a recommended surfactant at 0.25% v/v (2.5 L for each 1000 L of water).

## **WEEDS CONTROLLED:**

As listed for **UNITY Herbicide Tankmix** alone at the recommended rate and growth stage, plus suppression of Canada thistle. For best results, Canada thistle should be in the rosette to pre-bud stage.

DO NOT APPLY THIS TANK MIX BY AIR.

## **2,4-D ESTER & UNITY HERBICIDE TANKMIX:**

**NOTE:** Follow all mixing and spraying precautions, limitations and timing recommendations on the 2,4-D Ester label.

### **SPRING WHEAT AND BARLEY:**

**Time of Application:** Spring wheat and barley (not underseeded with other crops) may be treated from the 4-leaf to just prior to the appearance of the flag leaf.

**Spray Volume & Pressure:** Apply in NOT LESS than 100 litres of water per hectare at a pressure of 275 kPa.

**Application Rates: UNITY Herbicide Tankmix** (UNITY 75WG at 10.7 g/ha [1 soluble bag treats 4 ha or 10 acres; 1 package containing 2 soluble bags treats 8 ha or 20 acres] plus UNITY 280 EC Emulsifiable Selective Weedkiller at 500 mL/ha [1 jug treats 8 ha or 20 acres]) plus 2,4-D Ester at 420 g ai/ha plus a recommended surfactant at 0.25% v/v (2.5 L for each 1,000 L of spray mixture).

**NOTE:** Add the appropriate number of UNITY 75 WG water soluble bags directly into the spray tank. Do not touch water soluble bags with wet gloves. Allow six (6) minutes for complete mixing. Add the required amount of UNITY 280 EC Emulsifiable Selective Weedkiller to the spray tank. Add the required amount of 2,4-D Ester. Allow a further two (2) minutes for complete mixing. Longer mixing time may be required due to cold water or if the water soluble bags are brittle. Continue agitation while completing the filling of sprayer; then add a recommended surfactant at 0.25% v/v (2.5 L for each 1000 L of water).

### **WEEDS CONTROLLED:**

As listed for **UNITY Herbicide Tankmix** alone at the recommended rate and growth stage, plus suppression of Canada thistle. For best results, Canada thistle should be in the rosette to pre-bud stage.

DO NOT APPLY THIS TANK MIX BY AIR.

### **RESISTANCE MANAGEMENT:**

For resistance management, UNITY 280 EC Emulsifiable Selective Weedkiller is a Group 6 herbicide. Any weed population may contain or develop plants naturally resistant to UNITY 280 EC Emulsifiable Selective Weedkiller and other Group 6 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 UNITY 280 EC Emulsifiable Selective Weedkiller or other Group 6 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 Bayer CropScience Inc. at 1-888-283-6847.



Bayer CropScience

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