

# 2017 Guide to Crop Protection

## Spring Update

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### Herbicides

#### Corrections:

**Barricade II (page 114):** wild buckwheat should be included in the list of weeds controlled.

**BlackHawk with pyraflufen (page 124):** At 300 mL per acre one case (2 x 9 L) treats 60 acres.

**BlackHawk with pyraflufen (page 124) and GoldWing (page 242):** Statement should read ‘Do not exceed a maximum of 9 g per acre of pyraflufen over two years (or one application per year.)’

**Trifluralin (page 401):** Should be listed as herbicide group 3 instead of group 2.

**Special Crops Chart (page 62):** *Muster Toss-n-Go* at 8 g per acre controls flixweed (spring seedlings), hemp-nettle, smartweed and wild mustard and provides suppression of stinkweed. Disregard the ‘•’ in the existing chart.

#### Additions and other changes:

**Buctril M (page 134), Pardner (page 128) and Thumper (page 131):** are registered for control of jimsonweed up to the 4 leaf stage.

**Centurion (page 146):** is registered for use in *Brassica carinata* at a rate up to 150 mL per acre. Pre-harvest interval is 60 days. Since this use is registered under the Minor Use program (URMULE), the manufacturer assumes no responsibility for

herbicide performance. Those who apply this use do so at their own risk.

**Sortan IS (new product):** *Sortan IS* is a new corn herbicide registered for pre-emergent or post-emergent application. See the product page below for details.

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### Foliar Fungicides

#### Corrections/Changes:

**Propulse (page 504):** Updated restrictions: Maximum number of applications: DO NOT apply more than 605 mL per acre per season. DO NOT make more than 2 sequential applications of *Propulse* or any other Group 7 or Group 3 containing

fungicide before rotations with a fungicide from a different group.

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Grazing: DO NOT graze treated area or harvest for forage and hay for 7 days after application.

Re-cropping: Dry bean, chickpea, lentil, faba bean, cereals, corn, soybeans, oilseeds, and potatoes may

be replanted immediately following the last application. DO NOT replant alfalfa for 14 days after application. All other crops may be replanted 30 days following the last application of *Propulse*.

Additions:

**Cotegra (new product):** *Cotegra* is a new foliar fungicide from BASF Canada for disease control in dry beans, field peas, chickpeas, lentils, soybeans, and canola. See the mock-up page at the end of this document for details.

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## **Seed Treatments**

Corrections:

**EverGol Energy (Page 563):** *EverGol Energy* does not need to be diluted with water prior to application.

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**Sortan IS**

**Herbicide Group**  
2 – rimsulfuron  
(Refer to page 44)

**Company:**

E.I duPont Canada (PCP#32627)

**Formulation:**

20% rimsulfuron formulated as a wettable granule.  
Container size: 1.2 Kg.

**Crops and Staging:**

**Field corn:**

- Pre-emergent;
- Post-emergent: up to 5 leaf.

**Weeds, Rates and Staging:**

**Pre-emergent:** *Sortan IS* at 30.4 g per acre (one jug treats 40 acres) controls the following weeds prior to emergence:

Barnyard grass                      Foxtail (green, yellow\*)

**Post-emergent†:** *Sortan IS* provides control or suppression of the following weeds:

**15.2 g per acre (one jug treats 80 acres):**

Volunteer canola

**30.4 g per acre (one jug treats 40 acres):**

The weeds listed above plus:

Weed	Maximum leaf stage
Barnyard grass	1 to 4 leaf
Foxtail (green, yellow*)	1 to 4 leaf
Lamb’s-quarters	2 to 4 leaf
Redroot pigweed	2 to 4 leaf
Wild buckwheat	up to 4 leaf
Witchgrass	1 to 4 leaf
Quackgrass	3 to 6 leaf

\* Suppression only

†*Sortan IS* applied alone requires the addition of a non-ionic surfactant at 0.2 L per 100 L of spray solution.

Maximum one application of *Sortan IS* or other products containing rimsulfuron per year.

**Application Information:**

**Water Volume:** Minimum 40 to 77 L per acre. Higher water volumes may provide better performance.

**Nozzles & Pressure:** Use 25 to 40 psi (175 to 275 kPa) if applying without drift reduction nozzles. Drift reduction nozzles may require higher pressures for proper performance. Select the nozzle and pressure combination that produces of **ASABE medium** droplets while maintaining good coverage of foliage.

**Screens:** Use 50 mesh filter screens or larger.

**How it Works:**

Refer to Table 2 on page 47.

**Effects of Growing Conditions:**

Crop injury and reduce weed control may result if application is made to plants that have been stressed by extreme environmental conditions, low fertility, compacted soil, disease or insect damage.

**Tank Mixes:**

**Herbicides:**

Glyphosate (360 g ae/acre)

**Note: The above mixes are those listed on the *Sortan IS* label only.**

Adding ingredients in the correct order is critical for optimum performance. Check labels of both products to be mixed for directions. General guidelines can be found on page 8.

**Restrictions:**

**Rainfall:** Within 2 to 4 hours may reduce efficacy.

**Re-Entry Interval:** DO NOT enter treated fields for 12 hours.

**Grazing:** DO NOT graze or feed treated crop to livestock.

**Pre-harvest Interval:** DO NOT apply within 30 days of harvest.

**Re-cropping Interval:** barley, canola, chickpea, corn (field), dry beans, field pea, oat, potato, soybean, sunflower and wheat (spring, durum) may be grown the year after application.

**Aerial Application:** DO NOT apply by air.

**Storage:** Store in original containers in away from other fertilizers, food or feed. Freezing will not impair effectiveness.

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## New Herbicide Page Drafts

### Buffer Zones:

Crop	Buffer Zones (metres †) Required for the Protection of:		
	Aquatic Habitats of Depths		Terrestrial habitat
	Less than 1 m	Greater than 1 m	
Ground application	1	1	5

See the key to product pages on page 35 for an explanation of the different habitats.

- \* Buffer zones may be reduced when using drift reduction measures. See the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.
- † Distance measured as metres from the downwind edge of the spray boom to sensitive habitat.

**Tank Cleaning:** Refer to 'Method A' in the general section on sprayer cleaning on page 9 and 10.

### Hazard Rating:

Warning – Contains the allergens milk and sulfites.

Warning – Contains phenol.

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**Cotegra**

**Fungicide Group –3,7**  
Refer to page 437

**Company:**

BASF Canada (PCP#32530)

250 g per L boscalid and 150 g per L prothioconazole formulated as a suspension concentrate.  
Container size – 2 x 9.8 L

**Formulation:**

**Crops, Rates, Diseases and Timing:**

Crops:	Application rate (per acre):	Diseases suppressed:	Timing:
Dry bean	405 mL	White mould ( <i>Sclerotinia sclerotiorum</i> )	Apply at 20 to 50% flowering. Make a second application 7 to 14 days later if disease persists, or weather conditions are favourable for disease development.
Chickpea Lentil Field pea	283 mL	White mould ( <i>Sclerotinia sclerotiorum</i> )	Apply at the beginning of flowering or at the onset of disease symptoms. Make a second application 7 to 14 days later if disease persists, or weather conditions are favourable for disease development.
Canola Rapeseed Oriental mustard	283 mL	Sclerotinia stem rot ( <i>Sclerotinia sclerotiorum</i> )	Apply at 20 to 50% flowering. Make a second application 7 to 14 days later up to full bloom if disease persists, or weather conditions are favourable for disease development.
Soybeans	283 mL	White mould ( <i>Sclerotinia sclerotiorum</i> ); Septoria brown spot ( <i>Septoria glycines</i> )	Apply prior to disease development when conditions are favourable for disease development or at the onset of disease symptoms. Make a second application 7 to 14 days later if disease persists or weather conditions are favourable for disease development.

**Application Information:**

**Water Volume:**

**Ground:** Apply in a minimum of 40 L of water per acre.

**Aerial:** Apply in a minimum of 20 L of water per acre.

**How it Works:**

The active ingredient boscalid is a carboxamide (SDHI) fungicide with systemic activity. The active ingredient prothioconazole is a triazole fungicide with broad-spectrum systemic activity. For more information refer to “Fungicide Modes of Action” on page 435.

**Tank Mixes:**

None registered.

**Restrictions:**

**Resistance management:** Refer to page 434.

**Maximum number of applications:** DO NOT make more than two applications per season.

**Grazing:** DO NOT graze or feed to livestock within 7 days of last application.

**Preharvest interval:** Dry bean, chickpea, soybean, lentil, field pea - 21 days; canola, rapeseed, Oriental mustard - 36 days.

**Re-entry:** DO NOT re-enter treated area for 24 hours after application.

**Re-cropping:** Crops listed on the label may be planted 14 days after last application. Wait 30 days before planting all other crops.

**Storage:** Store in original container. Protect from freezing. DO NOT ship or store the product near food, feed, seed or fertilizer. Store the product in a cool, dry, locked, well-ventilated area without a floor drain.

**Environment:** Maintain buffer zones specified on the product label. Toxic to aquatic organisms. DO NOT apply to areas where runoff is likely to occur.

**Hazard Rating:**



Caution - Poison

For an explanation of the symbols used here see page 4.

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