

# CANOLA WEED CONTROL

## Preplant, Preemergence, or Postemergence Herbicides

Herbicide	Labeled Crops*	Rate/Acre			Comments/Restrictions
		Coarse**	Medium	Fine	
<b>Preplant or Preemergence</b>					
<b>AIM EC</b>	C	Up to 2 fl oz + 2 pt NIS or 0.5 gal HSOC-COC or HSOC-MSO <sup>1</sup> /100 gal			PP or PRE up to 1 day after planting. Apply to weeds <4" tall. Burndown.
<b>CORNERSTONE PLUS/ TOMAHAWK 4 or CORNERSTONE 5 PLUS/ TOMAHAWK 5</b>	C	Up to 2 qt or 1.5 qt + 8.5-17 lb AMS/100 gal <sup>a</sup>			PP or PRE before crop emergence. See label for perennial rates. <sup>a</sup> Include NIS or WC+NIS <sup>2</sup> as needed.
<b>DURANGO DMA/ DURAMAX</b>	C	Up to 48 fl oz + 8.5-17 lb AMS/100 gal <sup>a</sup>			PP or PRE before crop emergence. <sup>a</sup> Or WC+NIS <sup>2</sup> .
<b>ELEVORE</b>	C	1 fl oz			PP burndown to actively growing weeds up to 14 days before planting. Use with MSO.
<b>LIBERTY 280SL</b>	C	29-36 fl oz + 3 lb AMS			PP or PRE before crop emergence. May be applied to conventional or transgenic varieties. POST application not allowed if PP or PRE application is made. Maximum 36 fl oz/A/season.
<b>ROUNDUP POWERMAX/ WEATHERMAX***</b>	C, CR, M	Up to 44 fl oz + 8.5-17 lb AMS/100 gal <sup>a</sup>			PP or PRE but before crop emergence. Use when weeds have emerged prior to application. Rates vary with weed species present and size of weeds being sprayed. Perennial weeds may not be at the proper stage for complete control. Apply in 10-40 gallons of water per acre. <sup>a</sup> Or WC+NIS <sup>2</sup> .
<b>RT 3</b>	C, CR, M, R	Up to 44 fl oz + 8.5-17 lb AMS/100 gal <sup>a</sup>			PP or PRE but before crop emergence. For use in CO, ID, KS*, MN*, MT, NE*, NV, NM*, ND, OK*, OR, SD, TX*, UT, WA, and WY. *Certain counties only. <sup>a</sup> Or WC+NIS <sup>2</sup> .
<b>SONALAN HFP or 10G</b>	C, CR, R	1.5 pt 5.5 lb	2 pt 7.5 lb	2.5 pt 9.5 lb	PPI in SPRING or FALL. Thoroughly mix into top 2-3 inches of soil. Controls ALS resistant and dicamba tolerant kochia biotypes. 24c in ND (exp. 12/2020) for FALL application of Sonalan 10G into standing stubble for weed control in yellow mustard planted the following spring.
<b>TRUST /TREFLAN HFP or TREFLAN TR-10</b>	C, CR, M, R	1 pt 5 lb	1.5 pt 7.5 lb	2 pt 10 lb	PPI in SPRING or FALL. Follow recommended procedures for incorporation and application. Set equipment to incorporate to a depth of 3-4" with equipment specified by the label. Use 7.5 lb/A TR-10 or 1.5 pt/A Trust for mustard seed on fine soils.
<b>VIDA</b>	C, CR, M, R	0.5-2 fl oz + 2 pt NIS or 0.5 gal HSOC-COC or HSOC-MSO <sup>1</sup> /100 gal			Apply no later than 1 day before planting.
<b>Postemergence</b>					
<b>ASSURE II</b>	C, CR	7-10 fl oz + 0.5 gal HSOC-COC <sup>1</sup> /100 gal			See label for recommendation on rates required and weed sizes for specific weeds. Apply to actively growing grass weeds. 60 day PHI.
<b>BEYOND</b>	C	4 fl oz + 1 qt NIS/100 gal + 2.5% UAN/AMS <sup>2</sup>			Use only on CLEARFIELD (IMI tolerant) canola. Apply to canola from the cotyledon stage up to prior to the bloom stage when the majority of weeds are 1-3" in height. Maximum rate is 4 oz/A per season. PHI 60 days.
<b>CORNERSTONE PLUS/ TOMAHAWK 4 or CORNERSTONE 5 PLUS/ TOMAHAWK 5</b>	C	16-24 fl oz or up to 12-18 fl oz + 8.5-17 lb AMS/100 gal <sup>a</sup>			For Roundup Ready canola from emergence to 6-leaf. Use 16-32 fl oz or 12-24 fl oz 5 Plus. For sequential, use 32 fl oz/A or 24 fl oz/A from 1-3 leaf and again ≥ 10 days but before 6 leaf canola. Supplemental for Cornerstone 5 Plus for RR spring canola (exp. date not given): 12-18 fl oz/A for up to 6-leaf, 12 fl oz/A from 1-3 leaf and again at ≥ 10 days but before 6-leaf canola. See label for crop injury potential at higher rates. PHI 60 days. See labels for state restrictions. Maximum use rates and rates for growth stages vary by specific label. <sup>a</sup> Include NIS or WC+NIS <sup>2</sup> as needed.

\* C – canola, CR – crambe, M – mustard seed, R – rape seed.

\*\* Coarse – Sand, loamy sand, sandy loam.

Medium – Loam, silt, silt loam.

Fine – Silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay.

O.M. – Soils with low organic matter - use lower rate, with high organic matter – use higher rate within the range.

\*\*\* May use other formulations of glyphosate: Roundup brands, Durango DMA/Duramax or others if labeled.

<sup>1</sup> Between and Superb HC (COC) and Succeed/Ultra and Destiny HC (MSO) are HSOC adjuvants, generally used at half standard COC or MSO rates.

<sup>2</sup> Class Act NG or Flex, Alliance, or Ultra-Lite may be used where herbicides require NIS and AMS or a water conditioner.

# CANOLA WEED CONTROL

## Preplant, Preemergence, or Postemergence Herbicides

Herbicide	Labeled Crops*	Rate/Acre			Comments/Restrictions
		Coarse**	Medium	Fine	
<b>Postemergence (continued)</b>					
<b>DURANGO DMA/ DURAMAX</b>	C	12-18 fl oz + 8.5-17 lb AMS/100 gal <sup>a</sup>			For Roundup Ready canola only. Apply to canola from emergence to 6-leaf. Use 12-24 fl oz/A in Roundup Ready canola for seed when pollination is complete or near complete. Winter canola: use 18-24 fl oz/A in fall from emergence to canopy closure and prior to bolting in spring. Do not exceed 18 fl oz/A prior to 6-leaf in fall. Sequential: apply 12-24 fl oz/A in fall to ≥ 2-leaf and again ≥ 60 days later, but before bolting in spring. See label for crop injury potential at higher rates and total in crop maximum. <sup>a</sup> Or WC+NIS <sup>2</sup>
<b>LIBERTY 280SL</b>	C	29 fl oz + 3 lb AMS			Apply only to InVigor canola specified as LibertyLink. Apply to canola from the cotyledon stage up to the early bolting stage of growth. Liberty can be mixed with Assure II, Poast, Select 2 EC/Cleanse or Select Max. Do not apply more than 44 oz/A/season. PHI is 65 days. 24c WA (expires 12/31/2019) for canola for seed production to eliminate plants that are not glufosinate tolerant. AMS may be reduced from 3 lb/A to 1.5 lb/A in mixes with Assure II, Poast, Select 2 EC/Cleanse, Section Three, or Select Max.
<b>PANOFLEX</b>	C, R	0.3-0.6 oz			Burndown treatment when weeds have emerged and actively growing. Apply to crop stubble or fallow treatment. PP apply 60 days or more before planting. Include NIS, HSOC-COC or HSOC-MSO <sup>1</sup> with UAN/AMS.
<b>POAST</b>	C, CR, R	0.5-2.5 pt + 1 pt HSOC-COC or HSOC-MSO <sup>1</sup>			Apply to actively growing grasses. Rates vary with grass species. See label for recommendations and restrictions. Apply when grass is 2-4" tall. Volunteer corn can be controlled at 6-18" tall. Apply in 5-20 GPA of water at 40-60 psi. Flat fan or hollow cone nozzles are required. 60 day PHI.
<b>ROUNDUP POWERMAX/ WEATHERMAX***</b>	C	11-16 fl oz + 8.5-17 lb AMS/100 gal <sup>a</sup>			For use only on Roundup Ready canola. For RR spring canola: apply from emergence to 6-leaf. For sequential, apply 11 fl oz/A at 1-3 leaf and 11 fl oz/A no later than 6-leaf canola and ≥ 10 days apart. Total of single or multiple applications is 22 fl oz/A. For RR winter canola: apply from emergence to canopy closure in fall and prior to bolting in spring. Use 16-22 fl oz/A in fall. Use 11-22 fl oz/A to ≥ 2-leaf canola in fall and again in spring before bolting and ≥ 60 days apart. Total in-crop maximum of 44 fl oz/A. See label for crop injury potential at higher rates. 60 day PHI. <sup>a</sup> Or WC+NIS <sup>2</sup> .
<b>SECTION THREE</b>	C, M	2.67-5.33 fl oz			Use 1 pt/A of HSOC-COC or HSOC-MSO <sup>1</sup> , WC+NIS <sup>2</sup> , or 8.5-17 lb/100 gallons of AMS. Do not apply after crop has begun bolting.
<b>SELECT 2 EC/CLEANSE</b>	C, M	4-6 fl oz + 0.5 gal HSOC-COC or HSOC-MSO <sup>1</sup> /100 gal			Apply prior to canola bolting (or injury may occur) to actively growing grass. May be tank mixed with Liberty 280SL. Maximum 6 fl oz/A/season. 70 day PHI.
<b>SELECT MAX</b>	C, M	6-12 fl oz + 1 qt NIS/100 gal			Do not apply after canola has begun bolting. PHI 70 days. Use 6 fl oz when mixing with Liberty 280SL or Liberty Link canola.
<b>STINGER</b>	C, CR, R	4-8 fl oz			Apply to crop in the 2-6 leaf stage. 50 day PHI.
<b>TARGA</b>	C, CR	4-18 fl oz + 0.5 gal HSOC-COC <sup>1</sup> /100 gal			See label for recommendation on rates required and weed sizes for specific weeds. Apply to actively growing grass. PHI 60 days.
<b>Preharvest</b>					
<b>REGLONE</b>	C	1.5-2 pt			Desiccant. Apply in 5 GPA by ground or 15 GPA by air. Harvest no later than 10 days after application. PHI 7 days.

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Medium – Loam, silt, silt loam.

Fine – Silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay.

O.M. – Soils with low organic matter - use lower rate, with high organic matter – use higher rate within the range.

\*\*\* May use other formulations of glyphosate: Roundup brands, Durango DMA/Duramax or others if labeled.

<sup>1</sup> Between and Superb HC (COC) and Succeed/Ultra and Destiny HC (MSO) are HSOC adjuvants, generally used at half standard COC or MSO rates.

<sup>2</sup> Class Act NG or Flex, Alliance, or Ultra-Lite may be used where herbicides require NIS and AMS or a water conditioner.

# CANOLA INSECT CONTROL


## Labeled Insecticides


CANOLA	INSECTICIDE	Besiege	Coragen	Declare	Delta Gold	Gaucho 600	Grizzly Too	Hero	Karate Z/Warrior	Mustang Maxx	Paradigm/Lambda-Cy Ag	Prevathon	Seeker	Steed	Transform WG	Tundra/Brigade 2EC/Bifen 2 AG Gold
		Canola (C)	Crambe (CR)	Mustard (M)	Rape Seed (R)											
INSECT*		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Aphid		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Army Cutworm		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Diamondback Moth <sup>1</sup>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Flea Beetle		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

\* Many other insects may be controlled, see label.

<sup>1</sup> - Pyrethroid resistance in this insect is common.

## BEE ALERT

 See Insecticide Classification in the Technical Section for information on insecticide toxicity to bees.

 See Insecticide Resistance Management in the TECHNICAL INFORMATION section.

 See Insecticide Resistance Management in the TECHNICAL INFORMATION section.

## Insect Treatment Guidelines

Insecticide	Labeled Crops*	Rate/Acre	PHI	G/F	Comments/Restrictions
<b>APHID</b>					
<b>BESIEGE</b>	C	10 fl oz	21	–	Cabbage aphid. Apply before pests reach damaging levels. 5 day interval between applications.
<b>DECLARE</b>	C	1.54 fl oz	7	–	Timing and frequency should be based on locally-determined economic thresholds. Apply in minimum 2 GPA by air.
<b>GAUCHO 600</b>	C, CR, M, R	10.24-25.6 fl oz/cwt	–	–	For use in commercial treaters only. Not for use in hopper-box or other seed treatment application at or immediately before planting. For application to crambe use high label rate.
<b>GRIZZLY TOO</b>	C	1.92 fl oz	7	–	Notes 1, 2.
<b>HERO</b>	C, CR, R	4-5.5 fl oz	35	–	Note 1.
<b>KARATE Z/WARRIOR II</b>	C	1.92 fl oz	7	–	Note 1.
<b>MUSTANG MAXX</b>	C, CR, M, R	4 fl oz	7	–	Minimum 2 GPA by air. Note 1.
<b>PARADIGM/LAMBDA-CY AG</b>	C	3.84 fl oz	7	–	Do not apply >0.72 pt/A/season. Notes 1, 2.
<b>SEEKER</b>	C	1.6-3.1 oz	14	–	Do not make more than 2 applications per year.
<b>STEED</b>	C, CR, R	3.5-4.7 fl oz	35	–	Do not make application > 14 days apart. Note 1.
<b>TRANSFORM WG</b>	C, CR, M, R	0.75 oz	7	0	Do not apply this product until after petal fall. Note 12.
<b>TUNDRA/BRIGADE 2EC/BIFEN 2 AG GOLD</b>	C, CR, R	2.1-2.6 fl oz	35	–	Apply in at least 2 GPA by air and 10 GPA by ground.
<b>ARMY CUTWORM</b>					
<b>BESIEGE</b>	C	5-10 fl oz	21	–	Apply before pests reach damaging levels. 5 days interval between applications.
<b>DECLARE</b>	C	0.77-1.54 fl oz	7	–	Timing and frequency should be based on locally-determined economic thresholds. Apply in minimum 2 GPA by air.
<b>GRIZZLY TOO</b>	C	0.96-1.92 fl oz	7	–	Notes 1, 2.
<b>HERO</b>	C, CR, R	2.6-5.5 fl oz	35	–	Controls other common insects.
<b>KARATE/WARRIOR II</b>	C	0.96-1.92 fl oz	7	–	Minimum 2 GPA by air. Note 1.
<b>PARADIGM/LAMBDA-CY AG</b>	C	1.92-3.84 fl oz	7	–	Do not apply >0.72 pt/A/season. Notes 1, 2.
<b>STEED</b>	C, CR, R	2.5-3.5 fl oz	35	–	Do not make application > 14 days apart. Note 1.
<b>TUNDRA/BRIGADE 2EC/BIFEN 2 AG GOLD</b>	C, CR, R	2.1-2.6 fl oz	35	–	Apply in at least 2 GPA by air and 10 GPA by ground.

\* C – canola, CR – crambe, M – mustard seed, R – rape seed    PHI – preharvest interval days.    G/F – grazing and feeding interval days.



**Note 1:** May be applied through sprinkler irrigation systems (see label).

**Note 2:** May be applied by air.

**Note 3:** Do not apply within 7 days of harvest. Do not make applications <14 days apart. Do not make >4 applications/crop nor >2 consecutive applications/crop. Do not apply >8.5 oz/A/year (0.266 lb ai sulfoxaflo/A/year). If blooming vegetation is present 12' out from downwind edge of field, a downwind 12' on-field buffer must be observed. Do not use on soybeans.

# CANOLA INSECT CONTROL

## Insect Treatment Guidelines (continued)

Insecticide	Labeled Crops*	Rate/Acre	PHI	G/F	Comments/Restrictions
<b>DIAMONDBACK MOTH</b> 					<b>ET:</b> Seedling through early flowering – 1-2 larva per plant or 10-15 larva per square foot. Pod stage 1-3 larva per plant or 20-30 larva square foot.
<b>BESIEGE</b>	C	5-10 fl oz	21	–	Apply before pests reach damaging levels. 5 days interval between applications.
<b>CORAGEN</b>	C, CR, M, R	3.5-5 fl oz	21	–	
<b>DECLARE</b>	C	0.77-1.54 fl oz	7	–	Timing and frequency should be based on locally-determined economic thresholds. Apply in minimum 2 GPA by air.
<b>DELTA GOLD</b>	C, CR, R	0.8 fl oz	7	–	See comments below for flea beetle.
<b>GRIZZLY TOO</b>	C	0.96-1.92 fl oz	7	–	Also controls armyworm, cutworm, cabbage aphid, cabbage seed pod weevil, lygus bug, and grasshopper. Use 1.92 fl oz/A for aphid. Minimum 2 GPA by air. Notes 1, 2.
<b>HERO</b>	C, CR, R	4-5.5 fl oz	35	–	Also controls other common insects.
<b>KARATE Z/WARRIOR II</b>	C	0.96-1.92 fl oz	7	–	Minimum 2 GPA by air. Note 1.
<b>MUSTANG MAXX</b>	C, CR, M, R	4 fl oz	7	–	Also controls other common insects.
<b>PARADIGM/LAMBDA-CY AG</b>	C	1.92-3.84 fl oz	7	–	Also controls armyworm, cutworm, cabbage aphid, cabbage seed pod weevil, lygus bug, and grasshopper. Use 3.84 fl oz/A for aphid. Minimum 2 GPA by air. Do not apply >0.72 pt/A/season. Notes 1, 2.
<b>PREVATHON</b>	C, R	14-20 fl oz	21	–	At least 5 days between treatments. Note 1.
<b>STEED</b>	C, CR, R	2.5-3.5 fl oz	35	–	Do not make application > 14 days apart. Pyrethroid resistance is common for these pests. Note 1.
<b>TUNDRA/BRIGADE 2EC</b> <b>BIFEN 2 AG GOLD</b>	C, CR, R	2.1-2.6 fl oz	35	–	Also controls aphids, armyworms, cutworms, loopers, grasshoppers and others. Apply in at least 2 GPA by air or 10 GPA by ground.
<b>FLEA BEETLE</b> 					<b>ET:</b> scout daily and treat if injury approaching 25% defoliation of cotyledons and true leaves. Feeding and movement increases with warm, sunny weather.
<b>BESIEGE</b>	C	5-10 fl oz	21	–	Apply before pests reach damaging levels. 5 days interval between applications.
<b>DECLARE</b>	C	0.77-1.54 fl oz	7	–	Timing and frequency should be based on locally-determined economic thresholds. Apply in minimum 2 GPA by air.
<b>DELTA GOLD</b>	C, CR, R	0.8 fl oz	7	–	Also controls beet armyworm, bertha armyworm, cabbage seed pod weevil, clover cutworm, grasshopper and lygus bug. Do not apply more than 1.5 fl oz/A/season.
<b>GAUCHO 600</b>	C, M, R	10.24-25.6 fl oz/ cwt	–	–	For use in commercial treaters only. Not for use in hopper-box, slurry-box or other seed treatment application at or immediately before planting.
<b>GRIZZLY TOO</b>	C	0.96-1.92 fl oz	7	–	Also controls armyworm, cutworm, cabbage aphid, cabbage seed pod weevil, lygus bug, and grasshopper. Use 1.92 fl oz/A for aphid. Minimum 2 GPA by air. Notes 1, 2.
<b>HERO</b>	C, CR, R	2.6-5.5 fl oz	35	–	Also controls other common insects.
<b>KARATE Z/WARRIOR II</b>	C	0.96-1.92 fl oz	7	–	Minimum 2 GPA by air. Note 1.
<b>MUSTANG MAXX</b>	C, CR, M, R	4 fl oz	7	–	Also controls other common insects.
<b>PARADIGM/LAMBDA-CY AG</b>	C	1.92-3.84 fl oz	7	–	Also controls armyworm, cutworm, cabbage aphid, cabbage seed pod weevil, lygus bug, and grasshopper. Use 3.84 fl oz/A for aphid. Minimum 2 GPA by air. Do not apply >0.72 pt/A/season. Notes 1, 2.
<b>STEED</b>	C, CR, R	2.5-3.5 fl oz	35	–	Do not make application > 14 days apart. Note 1.
<b>TUNDRA/BRIGADE 2EC</b> <b>BIFEN 2 AG GOLD</b>	C, CR, R	2.1-2.6 fl oz	35	–	Also controls aphids, cutworms, loopers, grasshoppers and others. Apply in at least 2 GPA by air or 10 GPA by ground.

\* C – canola, CR – crambe, M – mustard seed, R – rape seed      PHI – preharvest interval days.      G/F – grazing and feeding interval days.

**Note 1:** May be applied through sprinkler irrigation systems (see label).

**Note 2:** May be applied by air.

# CANOLA DISEASE CONTROL

## Labeled Fungicides

CANOLA	INSECTICIDE	Approach	Contans WG	Elatus	Endura	Headline SC	Priaxor	Proline	Quash	Serenade ASO	Tetraban	Tilt	Topsin M WSB	Vertisan
		Canola (C)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Crambe (CR)		✓	✓			✓	✓		✓	✓	✓	✓	✓	
Mustard (M)		✓	✓			✓	✓		✓	✓	✓	✓	✓	
Rape Seed (R)		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	
DISEASE*														
Alternaria Black Spot		●		●		●	●					●	●	●
Black Leg		●	●	●		●	●	●				●	●	●
White Mold			●		●		S	●	●	S		●	●	●

\* Many other diseases may be controlled, see label.

S = Suppression

## Disease Treatment Guidelines

Fungicide	Labeled Crops*	Rate/Acre	PHI	G/F	Comments/Restrictions
<b>APPROACH</b>	C	6-12 fl oz	28	-	Apply prior to disease development, continue on 7-14 day interval. Notes 1,2.
<b>CONTANS WG</b>	C, CR, M, R	1-4 lb	0	NR	Apply prior to planting, at planting, or after crop emergence. Incorporate into soil to 2". Make 2 applications, but no more than 8, for maximum efficacy. Note 2.
<b>ELATUS</b>	C, CR, M, R	7.3 lb	30	NR	Apply by ground, air (except in NY) or chemigation. For black leg (Phoma) apply during rosette between 2nd true leaf and bolting. For Alternaria, apply at end of flowering/early pod set. For all other foliar diseases, apply at first sign of disease. No more than one application per year. See label for annual a.i. maximums.
<b>ENDURA</b>	C	5-6 oz	21	Yes	Controls sclerotinia stem rot. Begin applications at 20-50% flowering or prior to disease onset. Do not apply more than twice per season. NIS at 0.25% v/v may improve performance. Notes 1, 2.
<b>HEADLINE SC</b>	R	6-12 fl oz	21	NR	For blackleg, apply at 2- to 4-leaf stage. For blackspot, apply at early pod development. No more than 2 sequential applications before alternating to non-Group 11 fungicide with different MOA.
<b>PRIAXOR</b>	C, CR, R	4-8 fl oz	21	-	For control of black leg, apply at 2-4 leaf stage. For optimal control of blackspot, apply at early pod development. For suppression of white mold, apply at 20-50% flowering prior to onset of disease. Maximum 16 fl oz/A/season. Maximum 2 applications before rotating to another mode of action.
<b>PROLINE</b>	C, CR, M, R	4.3-5.7 fl oz	36	NO	Controls white mold (sclerotinia stem rot). Begin applications at 25-50% bloom. See for black leg control (exp. date not given) in KS, MN, MT, ND, OK and SD. Maximum of 2 applications/season, applied at 14 day intervals. Note 1.
<b>QUASH</b>	C	2-4 oz	35	NO	Controls white mold (Sclerotinia stem rot). Begin applications at 20-50% bloom. NIS at 0.25% v/v may improve performance. Can apply through chemigation.
<b>SERENADE ASO</b>	C, CR, M, R	2-6 qt	-	-	Bacillus subtilis is a biological fungicide. Begin application soon after emergence and when environmental conditions are conducive to disease development. Repeat on 7- to 10-day interval or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
<b>TETRABAN</b>	C, CR, M, R	6-15.5 fl oz	30	-	In general, apply by ground, air or irrigation 6-7 fl oz/A at early bud, followed by 14 fl oz/A about 45 days before harvest (a 3rd application of 7 fl oz may be made 30 days before harvest). Canola: For blackleg, apply at 2- to 4-leaf stage; For Alternaria and Sclerotinia apply at 10-25% flowering (3-7 days after first flower); For Alternaria alone can be applied at pod stage (95% petal fall).

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**NOTE 1:** May be applied by air. **NOTE 2:** May be applied through sprinkler irrigation systems (see label).

# CANOLA DISEASE CONTROL

## Disease Treatment Guidelines (continued)

Fungicide	Labeled Crops*	Rate/Acre	PHI	G/F	Comments/Restrictions
<b>TILT</b>	C, CR, M, R	2.6-4 fl oz	30	NR	For Alternaria, make application at the end of flowering/early pod set. Can apply through chemigation. For black leg control apply during rosette stage between 2nd true leaf and bolting. For alternaria apply at the end of flowering/early pod set. Note 1,2.
<b>TOPSIN M WSB</b>	C, CR	1-2 lb in 1 or 2 applications	–	–	Control of white mold, sclerotinia stem rot. For MN, ND, and MT (East of I-15). Apply once at 20-50% flowering or twice: at 20-30% flowering and at 40 to 50% flowering. Maximum of 2 lb per season. Thorough coverage of flowers is essential. Notes 1, 2.
<b>VERTISAN</b>	C	14-20 fl oz	21	–	Apply prior to disease development and continue on 7-14 day interval. For white mold control, begin application at 20-50% bloom and continue on 7-14 day interval. Maximum 41 fl oz/A/year.

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