

## Activity of Fungicides on Grape Diseases, 2016

Ratings in shaded cells indicate the disease is listed on the product label for control or suppression. Please see the product label or crop calendars for registered uses. Additional information, derived from other sources, is provided in this table to assist the grower in choosing the best fungicide for control of multiple diseases present in the vineyard.

Group		Anthraxnose	Phomopsis	Black rot	Downy mildew	Powdery mildew	Botrytis bunch rot	Activity	Pre-Harvest Interval (PHI)	Restricted Entry Interval (REI)	# of Applications Label (Rec) <sup>†</sup>
M	Copper 53W	0	1	1	2		0	Contact	2 d	48 hr	7
M	Copper Spray	0	1	1	2	1	0	Contact	2 d	48 hr	7
M	Cueva	0	1	1	2	2	0	Contact	1 d	48 hr	15
M	Guardzman Copper Oxychloride	0	1	1	2	1	0	Contact	2 d	48 hr	7
M	Kocide 2000	0	1	1	2	1	0	Contact	2 d	48 hr	7
M	Kumulus DF	1	1	0	0	3	0	Contact	21 d	24 hr	8
M	Microscopic Sulphur	1	1	0	0	3	0	Contact	21 d	24 hr	8
M	Microthiol Disperss	1	1	0	0	3	0	Contact	21 d	24 hr	8
M	Lime Sulphur	2	0	0	0	2	0	Contact	dormant	48 hr	1
M	Ferbam 76 WDG	2	3	3	2	0	0	Contact	7 d	12 hr	-
M	Polyram DF	2	3	3	3	0	0	Contact	45 d	12 hr	3
M	Penncozeb 75 DF Raincoat	2	3	3	3	0	0	Contact	30 d	24 hr	4
M	Manzate Pro-Stick	2	3	3	3	0	0	Contact	30 d	24 hr	4
M	Dithane Rainshield	2	3	3	3	0	0	Contact	30 d	12 hr	4
M	Maestro 80 DF	2	3	1	3	0	0	Contact	7 d	72 hr	-
M	Supra Captan 80 WDG	2	3	1	3	0	0	Contact	7 d	72 hr	-
M	Folpan 80 WDG	2	3	1	3	0	0	Contact	1 d	24 hr	2
2	Rovral WDG	0	0	0	0	0	4	Locally systemic	Pre bunch close	12 hr	2
3	Fullback 125 SC	3	0	4	0	4	0	Locally systemic	14 d	12 hr <sup>1</sup> /15 d <sup>2</sup>	2-3 (2)
3	Inspire <i>No longer marketed but still registered</i>	3	0	4	0	4	0	Locally systemic		12 hr <sup>1</sup> /48 hr <sup>2</sup>	
3+9	Inspire Super	3	0	4	0	4	4	Locally systemic	14 d	7 days	2 (2)
3	Mettle 125 ME	3	0	4	0	4	0	Locally systemic	15 d	12 hr <sup>1</sup> /7 d <sup>2</sup>	2 (2)
3	Nova	3	0	4	0	4 <sup>R</sup>	0	Locally systemic	14 d	12 hr <sup>1</sup> /12 d <sup>2</sup>	5 (2)

Group		Anthraxnose	Phomopsis	Black rot	Downy mildew	Powdery mildew	Botrytis bunch rot	Activity	Pre-Harvest Interval (PHI)	Restricted Entry Interval (REI)	# of Applications Label (Rec) <sup>†</sup>
4	RidomilGold MZ	0	1	1	4	0	0	Systemic	66 d	24 hr	1 prebl 1 postbl
5	Priwen	0	0	0	0	4	0	Locally systemic	35 d	12 hr <sup>1</sup> /17 d <sup>2</sup>	2-3 (2)
7	Aprovia	0	0	0	0	4	?	Locally systemic	21 d	12 hr	2-3 (2)
7	Cantus	0	0	0	0	4	1 <sup>†</sup>	Locally systemic	14 d	12 hr	5 (2)
7	Kenja	0	0	0	0	0	4	Locally systemic	14 d	12 hr	3 (2)
7	Sercadis	0	0	0	0	4	1*	Locally systemic	14 d	12 hr	6 (2)
7+9	Luna Tranquility	0	0	0	0	4	4	Locally systemic	Lead shot berry (Bayer rec)	12 hr <sup>1</sup> /24 hr <sup>2</sup>	3 (2)
9	Scala	0	0	0	0	0	4	Locally systemic	7 d	12 hr <sup>1</sup> /24 hr <sup>2</sup>	3 (2)
9	Vanguard 75 WG <i>No longer marketed but still registered</i>	0	0	0	0	0	4	Locally systemic	7 d	48 hr	6 (2)
9+12	Switch	0	0	0	0	0	4	Locally systemic	7 d	12 hr <sup>1</sup> /48 hr <sup>2</sup>	2
11	Flint	0	1	4	1	3 <sup>R</sup>	1 <sup>†</sup>	Locally systemic	14 d	12 hr <sup>1</sup> /5 d <sup>2</sup>	4 (2)
11	Sovran	0	1	4	2	3 <sup>R</sup>	1	Locally systemic	14 d	48 hr	4 (2)
11&7	Pristine	3	1	4	4	4	1 <sup>†</sup>	Locally systemic	14 d	When dry <sup>1</sup> / 21 d <sup>2</sup>	6 (3)
13	Quintec	0	0	0	0	4	0	Locally systemic	14 d	12 hr	5 (2)
17	Elevate	0	0	0	0	1	4	Locally systemic	7 d	4 hr	3 (2)
21	Torrent	0	0	0	4	0	0	Locally systemic	30 d	12 hr	6 (2)
22	Gavel	0	0	0	3	0	0	Contact	66 d	48 hr	6
33	Aliette	0	0	0	4	0	0	Systemic	15 d	6 d	7 (3)
33	Phostrol	0	0	0	4	0	0	Systemic	0 d	12 hr	4 (3)
33	Rampart	0	0	0	4	0	0	Systemic	1 d	4 hr	5 (3)

Group		Anthrachnose	Phomopsis	Black rot	Downy mildew	Powdery mildew	Botrytis bunch rot	Activity	Pre-Harvest Interval (PHI)	Restricted Entry Interval (REI)	# of Applications Label (Rec) <sup>*</sup>
40	Revus	0	0	0	4	0	0	Locally systemic	14 d	12 hr	4 (2)
40	Acrobat/Forum	0	0	0	4	0	0	Systemic	14 d	12 hr <sup>1</sup> /12 d <sup>2</sup>	4 (2)
40+45	Zampro	0	0	0	4	0	0	Systemic	14 d	12 hr <sup>1</sup> /12 d <sup>2</sup>	4 (3)
43	Presidio	0	0	0	4	0	0	Locally systemic	21 d	12 hr <sup>1</sup> /8 days <sup>2</sup>	4 (2)
U8	Vivando SC	0	0	0	0	4	0	Locally systemic	14 d	12 hr	6 (2)
44	Double Nickel	0	0	0	0	1	1	Contact	--	When dry	--
44	Serenade OPTI	0	0	0	0	1	2	Contact	0 d	12 hr	--
44	Botector	0	0	0	0	0	2	Contact	--	When dry	4
NC	MilStop	0	0	0	0	2	1	Contact	0 d	4 hr	10
NC	Sirocco	0	0	0	0	2	1	Contact	0 d	4 hr	10
46	Timorex Gold	0	0	0	1	2	?	Locally systemic	2 d	4 hr	--
NC	Buran	0	0	0	0	1	0	Contact	0 d	When dry	--
NC	Tivano	0	0	0	1?	0	0	Contact	--	When dry	--
M	Fracture	?	?	?	?	1	1	Contact	0 d	12 hr	5
U	Purespray Green Spray Oil	0	0	0	0	2	0	Contact	14 d	12 hr	--
P5	Regalia Maxx	0	0	0	0	1	1	Host defence inducer	0 d	When dry	--

<sup>\*</sup> # Applications: Label = maximum number of applications allowed by the label, ( ) = maximum number of applications recommended by OMAFRA for resistance management

0 = no activity; 1 = suppression; 2 = fair activity; 3 = good activity; 4 = excellent activity; ? = activity unknown

<sup>R</sup> = resistance is common in other parts of the world in grape so use with caution

\* = not effective for disease at labeled rate

For REI: <sup>1</sup> General hand labour; <sup>2</sup> hand labour (training, thinning, leaf pulling, hand harvest)

Contact = remains on the surface of sprayed tissues

Locally systemic = moves throughout tissues that were sprayed; little movement to new growth; not susceptible to rain washoff

Systemic = moves from sprayed tissue to new tissue/fruit; not susceptible to rain washoff