

## LIST OF FUNGICIDES USED ON COMMERCIAL VEGETABLES

Fungicide	Common Name	REI <sup>1</sup>	LD50 s <sup>2</sup>		L/R potential <sup>3</sup>	FRAC <sup>4</sup>
			Oral	Dermal		
42-S Thiram	thiram	24 hrs	3580	>4000	3/3	M3
Actigard	acibenzolar-S-methyl	12 hrs	>5000	>2000	2/3	21
Agri-mycin 17	Streptomycin sulfate	12 hrs	>5000	>2000	1/3	25
• Agri Tin 80 WP	triphenyltin hydroxide	48 hrs	160	500	3/1	-
Aliette WDG	fosetyl-aluminum	12 hrs	2860	>2000	3/3	33
Allegiance-FL	metalaxyl	24 hrs	>2900	>2000	1/2	4
Apron Maxx RTA	fludioxonil/mefenoxam	48 hrs	>5050	>2020	3/1	
Apron XL	mefenoxam	48 hrs	862	>2020	3/3	4
Badge SC	copper hydroxide/copper oxychloride	48 hrs	>2000	>2000	3/1	M1
Basic Copper 53	Copper sulfate	48 hrs	1000	>2000	3/1	M1
Bravo Ultrex	chlorothalonil	12 hrs	>5000	>2000	3/2	M5
Blocker 4F	PCNB	12 hrs	>5050	>2020	3/2	
Bravo Weather Stik	chlorothalonil	12 hrs	9000	>2000	3/2	M5
Cabrio EG	pyraclostrobin	12 hrs	>2000	>2000	3/1	11
Cannonball	fludioxinil	12 hrs	>5050	>2020	3/1	12
Cannonball WG	fludioxinil	12 hrs	>2000	>2000	3/1	12
Cannoball WP	fludioxinil	12 hrs	>5050	>2020	3/1	12
Captan 4 Flowable	captan	24-48 hrs	>5000	>2000	3/3	
Catamaran	potassium phosphite/chlorothalonil	12 hrs	>5000	>5000	1/2	-
Champ 30 DP	copper hydroxide	48 hrs	1346	>5000	3/1	M1
Champ DP	copper hydroxide	48 hrs	1346	>5000	3/1	M1
Champ Formula 2F	copper hydroxide	48 hrs	1630	>5000	3/1	M1
Champion	copper hydroxide	24-48 hrs	1098	>5000	3/1	M1
C-O-C-S WDG	copper oxychloride/copper sulfate	48 hrs	1131	>2000	3/1	M1
Contans	Coniothyrium minitans	4 hrs	>2500	>2500	3/2	-
Copper Count N	copper ammonium carbonate	12-48 hrs	-	-	-/-	M1
Cuprofix Ultra Disperss	copper sulfate	48 hrs	300-960	>2000	3/1	M1
Curzate 60 DF	cymoxanil	12 hrs	433	>5000	3/3	27
Dithane DF Rainshield	mancozeb	24 hrs	>5000	>5000	3/1	M3
Dithane F-45 Rainshield	mancozeb	24 hrs	>5000	>5000	3/1	M3
Dithane M-45	mancozeb	24 hrs	>5000	>5000	3/1	M3
Double Nickel 55 WDG	Bacillus amyloloiuefaciens	4 hrs	-	-	-/-	
Double Nickel LC	Bacillus amyloloiuefaciens	4 hrs	-	-	-/-	
Echo 720	chlorothalonil	12 hrs	3260	>2020	3/2	M5
Echo 90 DF	chlorothalonil	12 hrs	3260	>2020	3/2	M5
Echo ZN	chlorothalonil	12 hrs	4100	>2000	3/2	M5
Endura	boscalid	12 hrs	>2000	>2000	2/1	7
Equus 720 SST	chlorothalonil	12 hrs	>5000	>5000	3/2	M5
Equus DF	chlorothalonil	12 hrs	>5000	>2000	3/2	M5
Evito 480 SC	fluoxastrobin	12 hrs	>5000	>5000	3/1	11
Flint 50WG	trifloxystrobin	12 hrs	>5050	>2000	3/2	11
Fortelis	penthiopyrad	12 hrs	>5000	>5000	3/1	7
Forum	dimethomorph	12 hrs	500-2000	>4000	2/2	40
Fosphite	mono- and dipotassium salts of phosphorous acid	4 hrs	-	-	1/3	-

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			Oral	Dermal		
Gavel 75 DF	zoxamide + mancozeb	48 hrs	>5000	>5000	3/1	M & 22
Gem 25 WDG	trifloxystrobin	12 hrs	>5050	>2000	3/2	11
Gem 500	trifloxystrobin	12 hrs	>3000	>4000	3/2	11
Headline EC	pyraclostrobin	12 hrs	200-500	>4000	3/1	11
Headline SC	pyraclostrobin	12 hrs	455	>5000	3/1	11
Heritage	azoxystrobin	4 hrs	>5000	>2000	3/1	11
Initiate 720	chlorothalonil	12 hrs	9000	>2020	3/2	M5
Inspire Super	difenoconazole + cyprodinil	12 hrs	3129	>2000	3/1	3
Iprodione 4L AG	iprodione	24 hrs	>2000	>1000	3/3	2
Kentan DF	copper based compounds	48 hrs	945	>2000	3/1	M1
Kocide 2000	copper hydroxide	24 - 48 hrs	1346	>5000	3/1	M1
Kocide 3000	copper hydroxide	24 - 48 hrs	1847	>2000	3/1	M1
Koverall 75 WP	mancozeb	24 hrs	>5000	>5000	3/1	M3
Kumuluf DF	sulfur	24 hrs	>2200	>2000	1/1	M2
Luna Sensation	fluopyram/trifloxystrobin	12 hrs	2000	>2000	½	7 & 11
Luna Tranquility	fluopyram/pyrimthanil	12 hrs	>2000	>2000	1/2	7 & 9
ManKocide	copper hydroxide/mancozeb	48 hrs	2535	>5000	3/1	M1 & M3
Manzate Max	mancozeb	24 hrs	>5000	>5000	3/1	M3
Maxim Potato Seed Protectant	fludioxonil	12 hrs	>5050	>2000	3/1	12
Maxim 4 FS	fludioxonil	12 hrs	>5050	>2020	3/1	12
Maxim MZ 0.5 D	mancozeb/fludioxonil	24 hrs	>5000	>5000	3/1	M3 & 12
Maxim XL	fludioxonil/mefenoxam	48 hrs	2830	>2020	3/1	
Mertect 340-F	thiabendazole	12 hrs	>5000	>5050	3/1	1
Meteor	iprodione	24 hrs	2958	>2000	3/3	2
Micro Sulf	sulfur	24 hrs	>5000	>2000	1/1	M2
Microthiol Disperss	sulfur	24 hrs	>2000	>2000	1/1	M2
Moncoat MZ	mancozeb/flutolanil	24 hrs	>5000	>2000	3/1	M3 & 7
Moncut	flutolanil	12 hrs	>5000	>5000	2/2	7
Nevado 4F	iprodione	24 hrs	>1170	>2000	3/3	2
Nu-Cop 3L	copper hydroxide	48 hrs	1440	>2020	3/1	M3
Nu-Cop 50 DF	copper hydroxide	48 hrs	1300	>2000	3/1	M3
Omega 500 F	fluazinam	12 hrs - 5 days	>5000	>2000	3/2	29
Orius 3.6F	tebuconazole	12 hrs	>2000	>2000	1/2	3
Penncozeb 75 DF	mancozeb	24 hrs	-	-	3/1	M3
Penncozeb 80WP	mancozeb	24 hrs	>5000	>2000	3/1	
Phostrol	phosphorous acid	4 hrs	>5000	>5000	1/3	33
Polyram 80 DF	metiram	24 hrs	>5000	>2000	3/2	M3
Presidio	fluopicolide	12 hrs	>2000	>4000	1/2	43
Previcur Flex	propamocarb	12 hrs	2000-2900	>3000	3/2	28
Pristine	boscalid/pyraclostrobin	12 hrs	1490	>2000	2/1	7 & 11
Priaxor	fluxapyroxad/pyraclostrobin	12 hrs	500-2000	>5000	1/1	7 & 11
Procure 480 SC	triflumizole	12 hrs	1420	>5000	2/3	3
Prophyt	potassium phosphite	4 hrs	>5000	>4000	1/3	-
Prophyt	potassium phosphite	4 hrs	>5000	>4000	1/3	-

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			Oral	Dermal		
Propimax EC	propiconazole	12 hrs	-	-	2/1	3
Quadris	azoxystrobin	4 hrs	>5000	>4000	3/1	11
Quadris Opti	azoxystrobin/chlorothaonil	12 hrs	1750	>5000	3/1	11 & M
Quadris Ridomil Gold	metalaxyl/azoxystrobin	0 hrs	>5000	>4000	1/1	4 & 11
Quadris Top	azoxystrobin/difenoconazole	12 hrs	>2000	>2000	3/1	11 & 3
Quilt	azoxystrobin/propiconazole	12 hrs	1750	>5000	2/1	3 & 11
Quilt Xcel	azoxystrobin/propiconazole	12 hrs	1030	>5000	2/1	3 & 11
Quintec	quinoxifen	12 hrs	>2000	>2000	3/1	13
Rally 40WSP	myclobutanil	24 hrs	>2500	>5000	2/2	3
Ranman	cyazofamid	12 hrs	>5000	>2000	3/2	21
Reason 500 SC	fenamidone	12 hrs	>5000	>5000	3/3	11
Revus	mandipropamid	4 hrs	>5000	>5000	3/1	40
Revus Top	mandipropamid/difenoconazole	12 hrs	2958	>5000	3/1	3 & 40
Ridomil Gold/Bravo	mefenoxam/chlorothalonil	48 hrs	5000	>5050	3/2	4 & M5
Ridomil Gold MZ	mefenoxam/mancozeb	48 hrs	>2000	>2000	3/1	4 & M
Ridomil Gold/Copper	mefenoxam/copper hydroxide	48 hrs	550	>2020	3/1	4 & M1
Ridomil Gold PC	mefenoxam/PCNB	48 hrs	>5050	>2020	3/2	4 & 14
Ridomil Gold GR	mefenoxam	48 hrs	>5000	>2000	3/3	4
Ridomil Gold SL	mefenoxam	48 hrs	550	>2000	3/3	4
Rovral 4F	iprodione	24 hrs	1170	>2000	3/3	2
Rovral 4F	iprodione	24 hrs	>2000	>2000	3/3	2
Scala SC	pyrimethanil	12 hrs	4505-5000	>5000	2/3	9
• Sectagon 42	metam sodium	SL	790-970	1050	2/3	-
• Sectagon K-54	metam potassium	SL	500	>2000	-/-	-
Serenade	Bacillus subtilis	4 hrs	>5000	>5000	3/2	44
Serenade ASO	Bacillus subtilis	4 hrs	>5000	>5000	3/2	
Serenade Max	Bacillus subtilis	4 hrs	>2000	>2000	3/2	44
SoilGard 12G	Gliocladium virens	NA	-	-	3/2	-
Sonata	Bacillus pumilis	4 hrs	>5000	>5050	3/2	-
Sovran	kresoxim-methyl	12 hrs	>5000	>2000	3/3	11
Stadium	azoxystrobin/difenoconazole/fludioxinil	NA	550	>5000	3/1	
Sulfur DF	sulfur	24 hrs	-	-	1/1	M2
• Super Tin 80 WP	fentin hydroxide	48 hrs	160	500	3/1	30
Switch 62.5 WG	cyprodinil + fludioxonil	12 hrs	>5000	>2000	3/1	9 & 12
Tanos	famoxadone + cymoxanil	12 hrs	>5000	>2000	3/2	11 & 27
Tebuconazole 3.6F	tebuconazole	12 hrs - 19 days	>5000	>2000	1/2	
• Telone C35	1,3-dichloropropene + chloropicrin	SL	100-200	907-1000	2/3	UN
Thiolux	sulfur	24 hrs	>5000	>2000	1/1	
Thiram 480DP	thiram	24 hrs	2950-4430	>4000	3/3	
Thiram 50 WP Dyed	thiram	24 hrs	>2000	>2000	3/3	M3
Topsin 4.5 FL	thiophanate-methyl	1 - 3 days	>5000	>2000	3/2	1

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Topsin M WSB	thiophanate-methyl	1 - 3 days	>5000	>2000	3/2	1
Torino	cyflufenamid	4 hrs	>2000	>2000	3/1	U6
Trilogy	neem oil	4 hrs	>5000	-	-/-	-
Ultra Flourish	mefenoxam	48 hrs	>1172	>2020	3/3	4
Zapro	ametoctradin/dimethomorph	12 hrs	500-2000	>5000	2/2	45 & 40
Ziram 76DF	ziram	48 hrs	1889	>5000	2/3	M3

1. SL=See Label. Read and follow the label directions. Post areas or give oral warnings that areas have been treated to warn workers not to enter until the REI has elapsed as required by the label.
  2. The LD<sub>50</sub> is a standard toxicological term which indicates the number of milligrams (mg) of pesticide per kilogram (kg) of test animal body weight required to kill 50 percent of a test animal population. Values less than 10 indicate extremely high toxicity to mammals. The LD<sub>50</sub> data have been obtained from Material Safety Data Sheets.
  3. 1=high, 2=intermediate, 3=low. These leaching/runoff potential ratings are from the NRCS WIN-PST Pesticide Properties Database at <http://www.nrcs.usda.gov>
  4. FRAC codes are from the following website: <http://www.frac.info/frac/index.htm>
- = Restricted Use Pesticide. All or certain formulations of these toxicants have been classified as Restricted Use Pesticides.

NA = Not Applicable