

Fungicide Active Ingredient	Trade Name	Formulation	Respirator Required – Mixing Loading	Respirator Required - Application
Ametoctradin + dimethomorph	Zampro	4.4 SC	No	No
<i>Aureobasidium pullulans</i>	Botector	80WP	Yes	No
Azoxystrobin	Abound	2SC	No	
	Azaka	2SC	No	
Azoxystrobin + difenoconazole	Quadris Top	2.72SC	No	
Bacillus amyloiquefaciens	Double Nickel 55	25WDG	Yes	No
	Double Nickel LC	99AS	Yes	No
Benzovindiflupyr	Aprovia	0.82SC	No	
Boscalid	Endura	70WG	No	
Calcium polysulfide	Miller Lime Sulfur Solution	29% liquid	Yes	Yes
	Sulforix	27.5% liquid	Yes	Yes
Captan	CAP-UP	80WDG	No	No
	Captan 50WP	50WP	Yes ¹	No
	Captan 80WDG	80WDG	Yes ²	Yes ²
	Captec	4L	No	No
Cyazofamid	Ranman	400SC	No	No
Cyflufenamid	Torino	120SC	No	No
Difenoconazole + cyprodinil	Inspire Super	2.8SC	No	No
Fixed copper: copper hydroxide	Kocide 101	77WP	No	No
	Kocide 3000	46WP	No	No
	Champ Formula 2	4.5F	No	No
Cyprodinil	Vanguard	75WG	Yes ³	No
Cyprodinil + fludioxonil	Switch	62.5WG	Yes ⁴	No
Fenamidone	Reason	500SC	No	No
Fenhexamid	Elevate	50WDG	No	No
Fluopicolide	Presidio	4SC	No	No
Flutriafol	Rhyme	2.08SC	No	No
Flutriafol + azoxystrobin	Topguard EQ	4.29SC	No	No
Fluopyram + tebuconazole	Luna Experience	400SC	No	No
Iprodione	Rovral Brand 50 WP	50WP	No	No
	Rovral Brand 4 Flowable	4F	No	Yes ⁵
	Meteor	4F	No	Yes ⁵
Kresoxim-methyl	Sovran	50WG	No	No
Mancozeb	Dithane DF	75DF	No	No
	Rainshield Dithane F-45	4F	Yes ⁶	Yes
	Rainshield Dithane M-45	80WP	Yes ⁷	Yes

	Manzate Max	4F	No	No
	Manzate Pro-Stick	75DF	No	No
	Penncozeb 80 WP	80WP	No	No
	Penncozeb	75DF	Yes ⁸	Yes ⁸
Mandipropamid	Revus	2SC	No	No
Mandipropamid + difenoconazole	Revus Top	4SC	No	No
Mefanoxam	Ridomil Gold MZ WG	68WP	No	No
	Ridomil Gold/Copper	65WP	No	No
Metrafenone	Vivando	2.5SC	No	No
Myclobutanil	Rally	40WSP	No	No
Petroleum oil	JMS Stylet Oil	97%L	No	No
	Purespray Green	98%L	No	No
Phosphorus acid	Phostrol	4.32L	No	No
	Prophyt	4.2L	No	No
	Rampart	3.9L	No	No
Polyoxin D	Oso	5SC	No	No
	Ph-D	89WDG	No	No
Potassium bicarbonate	Armicarb	85WP	No	No
	Kaligreen	82P	No	No
Potassium dihydrogen phosphate	Nutrol	100% dissolvable salt	No	No
Pyrimethanil	Scala	5SC	No	No
Pyraclostrobin + boscalid	Pristine	38DF	No	No
Quinoxifen	Quintec	2.08F	No	No
Sulfur	Wettable Sulfur	Several	No	No
	Sulfur 6L	6L	No	No
	Microthiol Disperss	80WDG	No	No
Tetraconazole	Mettle	1ME	No	No
Thiophanate-methyl	Topsin-M	70WSB	No	No
Trifloxystrobin	Flint	50WG	No	No
Triflumizole	Procure 480SC	4SC	No	No
	Viticure	4SC	No	No
Ziram	Ziram	76DF	Yes ⁹	Yes ⁹
Zoxamide + mancozeb	Gavel	75DF	No	No

1 A respirator, as described on label, is required when mixing, loading, cleaning up spills, cleaning equipment, or otherwise exposed to the concentrate.

2 Respirator must be worn by all handlers except (1) applicators driving motorized equipment, and (2) mixers/loaders/applicators participating in backpack, low pressure hand-wand/handgun, and dip treatments, and (3) mixers/loaders participating in aerial applications.

3 A respirator, as described on label, is required for mixers and loaders for aerial and groundboom applications

4 Mixers and Loaders for aerial, groundboom, and chemigation applications must wear filtering facepiece respirator.

5 Applicators using hand held equipment must wear chemical-resistant headgear for overhead exposures and a dust/mist filtering respirator or a NIOSH approved respirator with any N, R, P, or HE filter.

6 For lettuce and peppers aerial application occupational handlers performing mixing/loading operations are required to wear a particulate respirator with an N, R, or P filter, NIOSH approval prefix TC 84-A. Also for potato seedpiece treatment when opening the bag or loading/pouring the treated seed/seed pieces. Also for turf on sod farms mixers/loaders supporting chemigation applications to turf on sod farms.

7 All handlers must wear a NIOSH approved respirator with a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or any N, R, P or HE filter.

8 Aerial applications on broccoli, cabbage, lettuce, and peppers requires that occupational handlers performing mixing/loading operations observe the additional mitigation measures of wearing a particulate respirator with an N, R, or P filter, NIOSH approval prefix ZTC-84A. Also for potato seedpiece treatment when opening the bag or loading/pouring the treated seed. Also mixers/loaders supporting aerial applications to walnuts must wear a particulate respirator.

9 All handlers must wear dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.