

Potato Seed Treatment

Potato

Class	Trade Name Active Ingredient (%)	Rate/cwt	Application
Thiophanate Methyl Group (1)	ST-Methyl 540 FS Thiophanate-methyl 46.2%	0.5-0.7 fl oz	On farm applied, water-based slurry or mist
SDHI Carboximides (Group 7)	Vibrance Sedaxane 43.7%	0.05-0.08 fl oz	On farm applied, water-based slurry
QoI Strobilurins ¹ (Group 11)	Dynasty Azoxystrobin 9.6%	0.10-3.75 fl oz	On farm applied, water-based slurry
	Reason Fenamidone 44.4%	0.15 fl oz	Commercial or on farm applied, diluted spray solution
Phenylpyrroles ¹ (Group 12)	Maxim 4FS Fludioxonil 40.3%	0.08 fl oz	On farm applied, specific equipment required
	Spirato 48 SF Fludioxonil 40.3%	0.08 fl oz	On farm applied, specific equipment required
	Dyna-Shield® Fludioxonil 40.3%	0.08 fl oz	On farm applied, specific equipment required
	CruiserMaxx Potato Insecticide and Fungicide Fludioxonil 7.00% + <i>Thiamethoxam</i> 28.00% (I)	0.19-0.27 fl oz dependent on seeding rates	Commercial or on farm applied, water-based slurry or mist
Chemicals with Multi-site Activity – Contact Activity ¹ (Group M3)	Korvall Mancozeb 75%	1.25 lb/50 gal water	On farm applied, water-based slurry (whole or cut tubers are dipped)
	Manzate Flowable Mancozeb 37.0%	1 qt/50 gal water	On farm applied, water-based slurry (whole or cut tubers are dipped)
	Manzate Pro-Stick Fungicide Mancozeb 75%	1.25 lbs/50 gal water	On farm applied, water-based slurry (whole or cut tubers are dipped)
	Penncozeb 75DF Mancozeb 75%	1.25 lbs/50 gal water	On farm applied, water-based slurry (whole or cut tubers are dipped)
	Penncozeb 80WP Mancozeb 80%	1.25 lbs/50 gal water	On farm applied, water-based slurry (whole or cut tubers are dipped)
	Roper DF Rainshield Mancozeb 75%	1.25 lbs/50 gal water	On farm applied, water-based slurry (whole or cut tubers are dipped)
Mixed Modes of Action	12 + M3 Maxim MZ Fludioxonil 0.50% + Mancozeb 5.70%	0.5 lb	On farm applied, Dust
	7 + 3 Emesto Silver Penflufen 9.35% + Prothioconazole 1.68%	0.31 fl oz	On farm applied, diluted spray slurry
	3 + 12 CruiserMaxx® Potato Extreme Fludioxonil 5.21% + Difenoconazole 10.27% + <i>Thiamethoxam</i> 20.83% (I)	0.31 fl oz	On farm applied with approved equipment for applying liquid, slurry or mix
	3 + 7 +12 CruiserMaxx Vibrance Potato Fludioxonil 3.34% + Difenoconazole 6.69% + Sedaxane 6.69% + <i>Thiamthoxam</i> 13.40% (I)	0.5 fl oz	On farm applied with approved equipment for applying liquid, slurry or mix

Soil Application

Class		Trade Name Active Ingredient (%)	Rate/1000 ft of row (fl oz) ¹	Application
PA Acylalanines (Group 4)		Ultra Flourish Mefenoxam 25.1%	0.84	In-furrow, 3 gal/A
SDHI Carboximides (Group 7)		Moncut Flutolanil 70%	0.50-1.1 lbs/A	In-furrow, 3 gal/A minimum
		Vertisan Penthiopyrad 20.6%	0.7-1.6	In-furrow
QoI Strobilurins ¹ (Group 11)		Equation Azoxystrobin 22.8%	0.40-0.80	Banded or in-furrow, 3-15 gal/A at planting
		Evito 480 SC Fluoxastrobin 40.3%	0.16-0.24	Banded or in-furrow, 3-20 gal/A at planting
		Headline Pyraclostrobin 23.6%	0.40-.080	Banded or in-furrow, minimum of 5 gal/A at planting
		Headline SC Pyraclostrobin 23.3%	0.40-0.80	Banded or in-furrow, minimum of 5 gal/A at planting
		Satori Azoxystrobin 22.9%	0.40-0.80	Banded or in-furrow, 3-15 gal/A at planting
		Tetran Azoxystrobin 22.9%	0.40-0.80	Banded or in-furrow, 3-15 gal/A at planting
Qil-Fungicides (Group 21)		Ranman 400SC Cyazofamid	0.42 2.75 fl oz/A	In furrow Lay-by/Hilling, minimum of 20 gallons of finished spray solution
Mixed Modes of Action	4 + 11	Quadris Ridomil Gold Azoxystrobin 22.9% + Mefenoxam 45.3%	0.82	In-furrow spray, 3-15 gal water/A at planting
	7 + 11	Elatus Azoxystrobin 30.0% + Benzovindiflupyr 15.0%	0.34-0.5	In-furrow
	7 + 11	Priaxor Xemium Fluxapyroxad 14.33% + Pyraclostrobin 28.58%	0.5-0.6	Banded or in-furrow, 2.5 gal/A at planting

¹ Rate is fluid ounces per acre unless otherwise noted

Potato Foliar Products

Fungicides				Application				
Class	Trade Name Active Ingredient (%)	Rate/A (fl oz) ¹	Formulations ²	Aerial	Chemigation	Ground	REI (Hours)	PHI (Days)
MBC Thiophanates (Group 1)	Topsin 4.5FL Thiophanate- methyl 45.0%	20.0- 30.0	F	6 gpa minimum	Allowed, <0.4" application	20 gpa minimum	48	21
	Topsin M WSB Thiophanate- methyl 70.0%	1.0- 1.5 lbs	WP	6 gpa minimum	Allowed, <0.4" application	20 gpa minimum	48	21
	Incognito 85 WDG Thiophanate- methyl 85.0%	0.8- 1.2	WDG	Not Allowed	Allowed, 0.1-1.25" application	Adequate for coverage and canopy penetration	48	21
Dicarboximides (Group 2)	Rovral 4 Flowable Fungicide Iprodione 41.6%	1.0- 2.0 pt	F	Not Allowed	Allowed, 0.1-0.4" application	Adequate for coverage and canopy penetration	24	14
DMI-fungicides (Group 3)	Quash Methconazole 50%	2.5- 4.0	WDG	5 gpa minimum	Allowed, 0.1-0.25" application	10 gpa minimum	12	1
SDHI Carboximides (Group 7)	Endura Boscalid 70%	3.5-10 ozs	WDG	5 gpa minimum	Allowed, <0.5" application	Adequate for coverage and canopy penetration	12	10
	Vertisan Penthiopyrad 20.6%	10-24	EC	2 gpa minimum	Allowed	15 gpa minimum	12	7
PA Acylalanines (Group 4)	Ultra Flourish Mefenoxam 25.1%	6.4	F	5 gpa minimum	Allowed, 0.5-1.0" application	20 gpa minimum	48	14
Anilinopyrimidine (Group 9)	Scala Pyrimethanil 54.6%	7.0	SC	5 gpa minimum	Not Allowed	15 gpa minimum	12	7
QoI Strobilurins (Group 11)	Equation Azoxystrobin 22.8%	6.0- 15.5	SC	5 gpa minimum	Allowed, <0.5" application	10 gpa minimum	4	14
	Evito 480 SC Fluoxastrobin 40.3%	2.0- 3.8	F	5 gpa minimum	Allowed, <0.4" application	10 gpa minimum	12	7

	Gem Trifloxystrobin 25.0%	6.0-8.0	SC	Not Allowed	Not Allowed	10 gpa minimum	12	7
	Headline Pyraclostrobin 23.6%	6.0-12.0	EC	5 gpa minimum	Allowed, <0.5" application	Adequate for coverage and canopy penetration	12	3
	Headline SC Pyraclostrobin 23.3%	6.0-12.0	SC	5 gpa minimum	Allowed, <0.5" application	Adequate for coverage and canopy penetration	12	3
	Reason 500 Fenamidone 44.4%	5.5-8.2	SC	5 gpa minimum	Allowed	15 gpa minimum	12	14
	Satori Azoxystrobin 22.9%	6.0-20.0	SC	Not allowed	Allowed, 0.1-0.25" application	Adequate for coverage and canopy penetration	4	14
	Tetraban Azoxystrobin 22.9%	6.0-20.0	EC	Not allowed	Allowed, 0.1-0.25" application	Adequate for coverage and canopy penetration	4	14
Qil-fungicides (Group 21)	Ranman 400SC Cyazofamid 34.5%	1.4-2.75	F	5 gpa minimum	Not allowed	5 gpa minimum	12	7
Carbamates (Group 28)	Previcur Propamocarb Hydrochloride 66.5%	0.7-1.2 pt	SC	6 gpa minimum	Allowed	15 gpa minimum	12	14
2, 6-dinitro-anilines (Group 29)	Omega 500F Fluazinam 40.0%	5.5	SC	5 gpa minimum	Allowed	5 gpa minimum	12	14
CCA-fungicides (Group 40)	Forum Dimethomorph 43.5%	4.0-6.0	SC	5 gpa minimum	Allowed, <0.5" application	20 gpa minimum	12	4
	Revus Mandipropamid 23.3%	5.5-8.0	SC	5 gpm minimum	Allowed, 0.1-.025" application	10 gpa minimum	4	14
Inorganics (Group M1)	Champ DP Copper Hydroxide 57.6%	0.67-2.67 lb	G	3 gpa minimum	Allowed	5 gpa minimum	48	0
	Champ WG Copper Hydroxide 77.0%	1.0-5.0 lb	WP	3 gpa minimum	Allowed	20 gpa minimum	48	0

	Champ Formula 2 Flowable Copper Hydroxide 37.5%	0.66- 2.66 pt	F	3 gpa minimum	Allowed	5 gpa minimum	48	0
	Kocide 2000 Copper Hydroxide 53.8%	0.75-3 lbs	G	3 gpa minimum	Allowed	20 gpa minimum	48	0
	Kocide 3000 Copper Hydroxide 46.1%	0.5- 1.75 lb	G	3 gpa minimum	Allowed	20 gpa minimum	48	0
	Badge X ₂ Copper Oxychloride 23.82% Copper Hydroxide 21.49%	1.0- 4.0 lb	DF	3 gpa minimum	Allowed	20 gpa minimum	48	0
Chemicals with Multi-site Activity – Contact Activity ¹ (Group M3)	Diathane DF Rainshield Mancozeb 15.0%	1.0- 2.0 lb	DF	2 gpa minimum	Allowed, <0.25"	Adequate for coverage and canopy penetration	24	14
	Diathane F-45 Mancozeb 37.0%	0.4- 1.6 qt	F	2 gpa minimum	Allowed, <0.25"	Adequate for coverage and canopy penetration	24	14
	Dithane M45 Mancozeb 80%	0.5-2 lb	WP	2 gpa minimum	Allowed, <0.25"	Adequate for coverage and canopy penetration	24	14
	Penncozeb 75DF Mancozeb 75%	0.5- 2.0 lb	DF	2 gpa minimum	Allowed, 0.1-0.25" application	Adequate for coverage and canopy penetration	24	14
	Penncozeb 80WP Mancozeb 80%	0.5- 2.0 lbs	WP	2 gpa minimum	Allowed, 0.1-0.25" application	Adequate for coverage and canopy penetration	24	14
Chloronitriles (Group M5)	Bravo 720 Chlorothalonil 54%	0.75- 1.5 pt	SC	5 gpa minimum	Allowed	5 gpa minimum	12	7
	Bravo 825 Chlorothalonil 82.5%	0.75- 1.36 lb	WDG	5 gpa minimum	Allowed	5 gpa minimum	12	7
Piperidiny- Thiazole- Isoxaxolines	Orondis OD Oxathiapiprolin	1.6- 4.8	OD	2 gpa minimum	Allowed	15 gpa minimum	4	5

(Group U15)									
Mixed Modes of Action	3 + 40	Revus Top Mandipropamid 21.9% + Difenoconazole 21.9%	5.5- 7.0 fl oz	SC	5 gpa minimum	Allowed, 0.1-.025" application	10 gpa minimum	12	14
	4 + M1	Ridomil Gold Copper Mefenoxam 5.0% + Copper Hydroxide 60.0%	5 lb/2.5 A	WP	5 gpa minimum	Allowed, 0.1-0.25" application	Adequate for coverage and canopy penetration	48	14
	4 + M3	Ridomil Gold MZ WG Mefenoxam 4.0% + Mancozeb 64.0%	2.5 lbs	DF	5 gpa minimum	Allowed, 0.1-0.25" application	10 gpa minimum	48	14
	4 + M5	Ridomil Gold Bravo SC Mefenoxam 3.3% + Chlorothalonil 33.1%	2.5 pt	SC	5 gpa minimum	Allowed, <0.5" application	20 gpa minimum	48	14
	7 + 9	Luna Tranquility Fluopyram 11.3% + Pyrimethanil 33.8%	8.0- 11.2	SC	2 gpa minimum	Allowed	Adequate for coverage and canopy penetration	12	7
	7 + 11	Priaxor Xemium Fluxapyroxad 14.33% + Pyraclostrobin 28.58%	4.0- 8.0	F	2 gpa minimum	Allowed, 0.25" application	Adequate for coverage and canopy penetration	12	7
	11 + 3	Quadris Top Azoxystrobin 18.2% + Difenoconazole 11.4%	8.0- 14.0	SC	5 gpa minimum	Allowed, 0.1-0.25" application	10 gpa minimum	12	14
	11 + 3	Quadris Top SBX Azoxystrobin 19.8% + Difenoconazole 19.8%	7.0- 7.5	SC	5 gpa minimum	Allowed, 0.1-0.25" application	10 gpa minimum	12	14
	11 + M3	Cabrio Plus	2.0- 2.9 lb	WDG	5 gpa minimum	Allowed,	15 gpa minimum	24	14

		Pyraclostrobin 5.0% + Metiram 55.0%				<0.33" application			
11 + M5		Quadris Opti Azoxystrobin 4.6% + Chlorothalonil 46%	1.6 pt	SC	5 gpa minimum	Allowed, <0.5" application	Adequate for coverage and canopy penetration	12	14
22 + M3		Gavel 75 DF Zoxamide 8.3% + Mancozeb 66.7%	1.5- 2.0 lb	DF	2 gpa minimum	Allowed, <0.25" application	10 gpa minimum	48	14
22 + M5		Zing Zoxamide 6.8% + Chlorothalonil 40.0%	24-34	SC	2 gpa minimum	Allowed, <0.25" application	5 gpa minimum	12	7
33 + M5		Catamaran Potassium Phosphite 38.9% + Chlorothalonil 16.7%	4.5- 5.5 pts	EC	Adequate for coverage and canopy penetration	Allowed	Adequate for coverage and canopy penetration	12	7
M3 + M1		Mankocide Mancozeb 15.0% + Copper Hydroxide 46.1%	1.5-5 lb	WDG	3 gpa minimum	Not Allowed	Adequate for coverage and canopy penetration	48	14
M3 + M5		Elixir Mancozeb 62.5% + Chlorothalonil 12.5%	1.5- 2.4 lb	DF	2 gpa minimum	Allowed	20 gpa minimum	24	14

¹ Rate is fluid ounces per acre unless otherwise noted

² Formulations: DF=Dry Flowable; EC=Emulsifiable Concentrate; F=Flowable; OD=Oil Dispersion; SC=Suspension Concentrate; SE=Suspo-Emulsion; G=Granule; WG=Water Dispersible Granule; WP=Wettable Powder

