

TWIGA CHEMICAL INDUSTRIES LTD

POTATO SPRAY PROGRAMME



CROP GROWTH STAGE	TARGET DISEASE / PEST	PRODUCT FOR CONTROL	ACTIVE INGREDIENT	DOSAGE		PHI DAYS	REMARKS
				PER 20L	PER Ha		
Before planting	Weed control	Twigasate	Glyphosate	40ml- p	2Lt	-	Weed control-Plant potatoes in a clean field.
Germination / sprouting/basal root Development	Nutrition	Rosazol P	N:P:K 10:50:10+TE	100g	2.5kg	-	Rosazol P has high phosphorus content which is important for root and tuber development.
	Potato tuber moth, Aphids	Duduthrin 1.75EC	Lambdaacyhalothrin	50ml	500ml	3	Pests transmit virus, cause blotches in basal shoots and tunnels in tubers, duduthrin has a quick knockdown effect on these pests
Vegetative stage(Inflorescence emergence and stem elongation)	Early blight	Milthane Super	Mancozeb	50g	2.5kg	14	Disease is severe during hot weather. Heavy rains and high humidity favour disease spread. Milthane is contact and protective while Twigalaxyl is systemic curative and preventive. Alternate the two fungicides
		Twigalaxyl	Metalaxyl + Mancozeb	50-100g	2.5kg	7	
	Colarado potato beetles, leafhopper & aphids,	Duduthrin 1.75EC	Lambdaacyhalothrin	50ml	300ml	3	Pests transmit virus, cause leaf mottling and stunted growth in plants, duduthrin has a quick knockdown effect on these pests
	Potato leafhopper,aphids <i>Tuta absoluta</i>	Twiga Ace	Acetamiprid	8ml	250ml	7	Twigaace is broad spectrum and has excellent systemic and translaminar properties which ensures rainfastness and longer residual activity when sprayed.
	Nutrition	Rosazol N	N:P:K 30:10:10+TE	100g	2.5kg	-	Provide the crop with N:P:K + trace elements important for vigorous vegetative growth, development of more tubers and stronger growth of the plant
		Vigo	Plant biostimulant	30ml	1 L	-	Enhances vigorous crop growth.
Tuber Initiation & bulking	Late blight	Milthane Super	Mancozeb	50g	2.5kg	14	Disease is severe during hot weather. Heavy rains and high humidity favor disease spread. Milthane is contact and protective while Twigalaxyl is systemic curative and preventive. Alternate the two fungicides
		Twigalaxyl	Metalaxyl + Mancozeb	50-100g	2.5kg	7	
	Potato leafhopper, aphids and leafminers (<i>Tuta absoluta</i>)	Twiga Ace	Acetamiprid	8ml	250ml	7	Twiga ace is broad spectrum and has excellent systemic and translaminar properties which ensures rainfastness and longer residual activity when sprayed.
		Twigamectin	Abamectin	10ml	0.5L	7	Twigamectin kills all motile stages and is highly effective against leafminers (<i>Tuta absoluta</i>)
	Nutrition	Rosazol K	N:P:K 12:12:36+TE	100g	2.5kg	-	Provides the crop with NPK + Trace elements important for improving tube size, yield and quality of potatoes.
Tuber maturation	Late blight	Milthane Super	Mancozeb	50g	2.5kg	14	Disease is severe during hot weather. Heavy rains and high humidity favor. disease spread. Milthane is contact and protective while Twigalaxyl is systemic curative and preventive. Alternate the two fungicides
		Twigalaxyl	Metalaxyl + Mancozeb	50-100g	2.5kg	7	
	Bacteria infections	Vitra 40WG	Copper Hydroxide	50g	2.5kg	-	Routine sprays with Vitra 40WG protects the crop from bacteria infections
	Nutrition	Rosazol Even	N:P:K 20:20:20+TE	100gms	2.5kg	-	Rosazol E provides the crop with important nutrients for tuber development

NOTE: AGRAL 90(surfactant/spray adjuvant) should be incorporated in all sprays



Potato Late blight



Potato earlyblight



Whiteflies



Potato tuber moth



Potato Leafhopper



Leafminer (*Tuta absoluta*)