

Crop Protection Agents (CPAs) Used in the Production of Tobacco in Maryland (Source: 2019-2020 Burley and Dark Tobacco Production Guide)

Adapted for Maryland by: Ben Beale, Extension Agent- University of Maryland

Trade Name	EPA Registration No.	Type	Active Ingredient	Manufacturer	RUP <sup>1</sup>	Signal Word	Days PHI <sup>2</sup>	Hours REI <sup>3</sup>
Acephate 90 Prill	66222-123	insecticide	acephate	Makhteshim Agan of North America, Inc	No	Caution	3 days	24 hrs
Acephate 90 WDG	34704-1051	insecticide	acephate	Loveland Products	No	Caution/ Warning	3 days	24 hrs
Acephate 90 WSP	34704-862	insecticide	acephate	Loveland Products	No	Caution	3 days	24 hrs
Acephate 97 WDG	66222-266	insecticide	acephate	ADAMA	No	Caution	3 days	24 hrs
Acephate 97UP	70506-8	insecticide	acephate	United Phosphorus, Inc	No	Caution	3 days	24 hrs
Actara 25 WG	100-938	insecticide	thiamethoxam	Syngenta Crop Protection, LLC	No	Caution	14 days	12 hrs
Actigard 50WG	100-922	plant activator fungicide	acibenzolar-S-methyl	Syngenta Crop Protection, LLC	No	Danger	21 days	12 hrs
Acumen	241-337- 55467	herbicide	pendimethalin	Tenkoz, Inc	No	Caution	Not foliarly applied	24 hrs
Admire Pro 4.6F	264-827	insecticide	imidacloprid	Bayer Crop Sciences	No	Caution	14 days	12 hrs
Agree WG	70051-47	insecticide	<i>Bacillus thuringiensis</i>	Certis USA, LLC	No	Caution	No restriction stated on label	4 hrs
Agri-Mycin 17	55146-96	bactericide	streptomycin sulfate	Nufarm Ag Products	No	Caution	No restriction stated on label	12 hrs
Aim EC	279-3241	herbicide	carfentrazone	FMC Corp	No	Caution	Not foliarly applied to tobacco	12 hrs
Alias 2F	66222-203	insecticide	imidacloprid	ADAMA	No	Caution	14 days	12 hrs
Alias 4F	66222-156	insecticide	imidacloprid	ADAMA	No	Caution	14 days	12 hrs
Aliette WDG	264-516	fungicide	aluminum tris (O-ethyl phosphate)	Bayer Crop Sciences	No	Caution	3 days	12 hrs
Assail 30SG	8033-36- 70506	insecticide	acatamiprid	United Phosphorus, Inc	No	Caution	7 days	12 hrs
Assail 70WP	8033-23- 70506	insecticide	acatamiprid	United Phosphorus, Inc	No	Caution	7 days	12 hrs
Aza Direct	71908-1- 10163	insecticide	azadirachtin	Gowan Co	No	Caution	No restriction stated on label	4 hrs
Belay Insecticide	59639-150	insecticide	clothianidin	Valent USA	No	Caution	14 days	12 hrs
Besiege	100-1402	insecticide	lambda-cyhalothrin + chloratrailiprole	Syngenta Crop Protection, LLC	Yes	Warning	40 days	24 hrs
Biobit HP	73049-54	insecticide	<i>Bacillus thuringiensis</i>	Valent USA	No	Caution	No restriction stated on label	4 hrs
Blackhawk Naturalyte	62719-523	insecticide	spinosad	Dow AgroSciences	No	Caution	3 days	4 hrs
Blanket 4F	82534-5- 55467	herbicide	sulfentrazone	Tenkoz, Inc	No	Caution	Not foliarly applied	12 hrs
Brigade 2EC	279-3313	insecticide	bifenthrin	FMC Corp	Yes	Warning	Do not apply later than layby	12 hrs
Brigadier	279-3332	insecticide	bifenthrin + imidacloprid	FMC Corp	Yes	Warning	Do not apply later than layby	12 hrs
Butralin	33688-4-400	sucker control	butralin	Arysta Lifescience North America, LLC	No	Danger	30 days air-cured and dark tobacco types, 7 days flue-cured	12 hrs
Capture LFR	279-3302	insecticide	bifenthrin	FMC Corp	Yes	Warning	Do not apply later than layby	12 hrs
Carbaryl 4L - Drexel	19713-49	insecticide	carbaryl	Drexel Chemical Co	No	Caution	2 days	12 hrs

<sup>1</sup> RUP: Restricted Use Pesticide

<sup>2</sup> PHI: Pre-Harvest Interval

<sup>3</sup> REI: Restricted-Entry Interval

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Carbaryl 4L - Loveland Products	34704-447	insecticide	carbaryl	Loveland Products	No	Caution	2 days	12 hrs
Command 3ME	279-3158-5905	herbicide	clomazone	FMC Corp	No	Caution	Product not applied past 7 days after transplanting	12 hrs
Coragen - FMC	352-729	insecticide	chlorantraniliprole	FMC Corp	No	Caution	1 days	4 hrs
Devrinol 2-XT	70506-301	herbicide	napropamide	United Phosphorus, Inc	No	Caution	Not foliarly applied	24 hrs
Devrinol 50-DF	70506-36	herbicide	napropamide	United Phosphorus, Inc	No	Caution	Not foliarly applied	24 hrs
Devrinol DF-XT	70506-36	herbicide	napropamide	United Phosphorus, Inc	No	Caution	Not foliarly applied	24 hrs
Dipel DF	73049-39	insecticide	<i>Bacillus thuringiensis</i>	Valent USA	No	Caution	No restriction stated on label	4 hrs
Dipel ES	73049-17	insecticide	<i>Bacillus thuringiensis</i>	Valent USA	No	Caution	No restriction stated on label	4 hrs
Drexalin Plus	19713-510	sucker control	flumetralin	Drexel Chemical Co	No	Caution	No restriction stated on label	12 hrs
Durivo	100-1318	insecticide	thiamethoxam	Syngenta Crop Protection, LLC	No	Caution	Not foliarly applied	12 hrs
Endigo ZC	100-1276	insecticide	lambda-cyhalothrin + thiamethoxam	Syngenta Crop Protection, LLC	Yes	Warning	40 days	24 hrs
FluPro	73631-2-400	sucker control	flumetralin	Arysta Lifescience North America, LLC	No	Caution	No restriction stated on label	12 hrs
Forum	241-427	fungicide	dimethomorph	BASF Ag Products	No	Caution	0 days	12 hrs
Framework 3.3 EC	1381-216	herbicide	pendimethalin	Windfield Solution	No	Caution	Not foliarly applied	24 hrs
Fulfill 50WDG	100-912	insecticide	pymetrozine	Syngenta Crop Protection, LLC	No	Caution	14 days	12 hrs
Gramoxone SL	100-1217	herbicide	paraquat	Syngenta Crop Protection, LLC	Yes	Danger/Poison	Not foliarly applied	24 hrs
Gramoxone SL 2.0	100-1431	herbicide	paraquat	Syngenta Crop Protection, LLC	Yes	Danger/Poison	Not foliarly applied	24 hrs
Harbour	66222-121	bactericide	streptomycin	ADAMA	No	Caution	No restriction stated on label	12 hrs
Helena Pendimethalin	241-337-5905	herbicide	pendimethalin	Helena Chemical Co	No	Caution	Not foliarly applied	24 hrs
Javelin WG	70051-66	insecticide	<i>Bacillus thuringiensis</i>	Certis USA, LLC	No	Caution	No restriction stated on label	4 hrs
Karate	100-1086	insecticide	lambda-cyhalothrin	Syngenta Crop Protection, LLC	Yes	Warning	40 days	24 hrs
Lannate LV	352-384	insecticide	methomyl	DuPont Crop Protection	Yes	Danger/Poison	14 days air or fire cured, 5 days flue cured	48 hrs

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Lannate SP	352-342	insecticide	methomyl	DuPont Crop Protection	Yes	Danger/ Poison	14 days air or fire cured, 5 days flue cured	48 hrs
Lorsban 15G	62719-34	insecticide	chlorpyrifos	Dow AgroSciences	No	Caution	7 days	24 hrs
Lorsban 4E	62719-220	insecticide	chlorpyrifos	Dow AgroSciences	Yes	Warning	Not foliarly applied	24 hrs
MetaStar 2E	71532-5- 66330	fungicide	metalaxyl	LG Life Sciences	No	Warning	Not foliarly applied	48 hrs
Mocap 15% Granular	5481-9040	insecticide	ethoprop	Ambac Chemical Corporation	Yes	Danger/ Poison	Not foliarly applied	48 hrs
Nuprid 2SC	228-572	insecticide	imidacloprid	Nufarm Ag Products	No	Caution	14 days	12 hrs
Nuprid 4F Max	228-528	insecticide	imidacloprid	Nufarm Ag Products	No	Caution	14 days	12 hrs
Off-Shoot-T	400-452	sucker control	C8-C10 fatty alcohol	Chemtura AgroSolutions	No	Danger	No restriction stated on label	24 hrs
Orondis Gold 200	100-1571	fungicide	oxathiapirolin	Syngenta Crop Protection, LLC	No	Caution	7 days	4 hrs
FIFRA Section 2(ee) Recommendation								
Orondis Ultra A	100-1572	fungicide	oxathiapirolin	Syngenta Crop Protection, LLC	No	Caution	7 days	4 hrs
Orondis Ultra B	100-1254	fungicide	mandipropamid	Syngenta Crop Protection, LLC	No	None	7 days	4 hrs
Orthene 97	59639-33	insecticide	acephate	Ambac Chemical Corporation	No	Caution	3 days	24 hrs
<i>Penncozeb 75 DF</i>	70506-185	fungicide	mancozeb	United Phosphorus, Inc	No	Caution	21 d in flue-cured tobacco	24 hrs
Platinum	100-939	insecticide	thiamethoxam	Syngenta Crop Protection, LLC	No	Caution	Not foliarly applied	12 hrs
Platinum 75 SG	100-1291	insecticide	thiamethoxam	Syngenta Crop Protection, LLC	No	Caution	Not foliarly applied	12 hrs
Poast	7969-58	herbicide	sethoxydim	BASF Ag Products	No	Warning	42 days	12 hrs
Presidio (supp label)	59639-140	fungicide	fluopicolide	Valent USA	No	Caution	7 days	12 hrs
Prime+ EC	100-640	sucker control	flumetralin	Syngenta Crop Protection, LLC	No	Danger	No restriction stated on label	12 hrs
Prowl 3.3 EC	241-337	herbicide	pendimethalin	BASF Ag Products	No	Caution	Not foliarly applied	24 hrs
Prowl H2O	241-418	herbicide	pendimethalin	BASF Ag Products	No	Caution	Not foliarly applied	24 hrs
Quadris Flowable	100-1098	fungicide	azoxystrobin	Syngenta Crop Protection, LLC	No	Caution	0 days	4 hrs
Revus	100-1254	fungicide	mandipropamid	Syngenta Crop Protection, LLC	No	Caution	7 days	4 hrs
Ridomil Gold SL	100-1202	fungicide	mefenoxam	Syngenta Crop Protection, LLC	No	Warning	Not foliarly applied	48 hrs
Supplemental Label								
Round-Up PowerMax	524-549	herbicide	glyphosate	Monsanto	No	Caution	Not foliarly applied to tobacco	4 hrs

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Royal MH-30	400-84	sucker control	maleic hydrazide	Arysta Lifescience North America, LLC	No	Caution	7 days	12 hrs
Royal MH-30 SG	400-165	sucker control	maleic hydrazide	Arysta Lifescience North America, LLC	No	Caution	7 days	12 hrs
Royal MH-30 Xtra	400-452	sucker control	maleic hydrazide	Arysta Lifescience North America, LLC	No	Caution	7 days	12 hrs
Royaltac	400-135	sucker control	C10 fatty alcohol	Arysta Lifescience North America, LLC	No	Danger	No restriction stated on label	24 hrs
Royaltac M	400-451	sucker control	C8-C10 fatty alcohol	Arysta Lifescience North America, LLC	No	Danger	No restriction stated on label	24 hrs
Satellite 3.3	70506-318	herbicide	pendimethalin	United Phosphorus Inc	No	Caution	Not foliarly applied	24 hrs
Sevin 4F	61842-38	insecticide	carbaryl	NovaSource	No	Caution	2 days	12 hrs
Sevin XLR Plus	61842-37	insecticide	carbaryl	NovaSource	No	Caution	2 days	12 hrs
Spartan 4F	279-3220	herbicide	sulfentrazone	FMC Corp	No	Caution	Not foliarly applied	12 hrs
Spartan Charge	279-3337	herbicide	sulfentrazone + carfentrazone	FMC Corp	No	Caution	Not foliarly applied	12 hrs
Stealth	34704-868	herbicide	pendimethalin	Loveland Products	No	Caution	Not foliarly applied	24 hrs
Sucker Stuff	19713-1	sucker control	maleic hydrazide	Drexel Chemical Co	No	Caution	3 wk (21 days)	12 hrs
Telone C-17	62719-12	soil fumigant	dichloroprene + chloropicrin	Dow AgroSciences	Yes	Danger/ Poison	Not foliarly applied	5 d (120 hrs) - see label
Telone II	62719-32	soil fumigant	dichloroprene	Dow AgroSciences	Yes	Warning	Not foliarly applied	5 d (120 hrs) - see label
Terramaster 4 EC	400-422	fungicide	etr Diazole	Chemtura AgroSolution	No	Danger	Not foliarly applied	12 hrs
Tide Acephate 90 WDG	84229-7	insecticide	acephate	Tide International USA, Inc	No	Caution	3 days	24 hrs
Tracer Naturalyte	62719-267	insecticide	spinosad	Dow AgroSciences	No	Caution	3 days	4 hrs
Ultra Flourish	55146-73	fungicide	mefenoxam	Nufarm Ag Products	No	Warning	Not foliarly applied	48 hrs
Vapam HL	5481-468	soil fumigant	sodium methylthiocarbamate	Amvac Chemical Corporation	Yes	Danger/ Poison	Not foliarly applied	5 d (120 hrs) - see label
Verimark	352-860	insecticide	cyazopyr	Dupont	No	Caution	No restriction stated on label	4 hrs
Voliam Flexi	100-1319	insecticide	thiamethoxam + chlorantraniprole	Syngenta Crop Protection, LLC	No	Caution	14 days	12 hrs
Warrior II with Zeon Technology	100-1295	insecticide	lambda-cyhalothrin	Syngenta Crop Protection, LLC	Yes	Warning	40 days	24 hrs
Widow	34704-893	insecticide	imidacloprid	Loveland Products	No	Caution	14 days	12 hrs

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Willowood Imidacloprid 4SC	87290-26	insecticide	imidacloprid	Willowood USA	No	Caution	14 days	12 hrs
Willowood Sulfentrazone 4SC	87290-59	herbicide	sulfentrazone	Willowood USA	No	Warning	Not foliarly applied	12 hrs
XenTari	73049-40	insecticide	<i>Bacillus thuringiensis</i>	Valent USA	No	Caution	No restriction stated on label	12 Hrs

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