

Crop Protection Agents (CPAs) Used in the Production of Tobacco

Trade Name (click for label)	MSDS	EPA Registration No.	Type	Active Ingredient	Manufacturer	RUP ¹	Signal Word	Days PHI ²	Hours REI ³
Acephate 90 Prill	MSDS	66222-123	insecticide	acephate	Makhteshim Agan of North America, Inc	No	Caution	3 days	24 hrs
Acephate 90 WDG	MSDS	34704-1051	insecticide	acephate	Loveland Products	No	Caution/Warning	3 days	24 hrs
Acephate 90 WSP	MSDS	34704-862	insecticide	acephate	Loveland Products	No	Caution	3 days	24 hrs
Acephate 97 WDG	MSDS	66222-266	insecticide	acephate	ADAMA	No	Caution	3 days	24 hrs
Acephate 97UP	MSDS	70506-8	insecticide	acephate	United Phosphorus, Inc	No	Caution	3 days	24 hrs
Actara 25 WG	MSDS	100-938	insecticide	thiamethoxam	Syngenta Crop Protection, LLC	No	Caution	14 days	12 hrs
Actigard 50WG	MSDS	100-922	plant activator/fungicide	acibenzolar-S-methyl	Syngenta Crop Protection, LLC	No	Danger	21 days	12 hrs
Acumen	MSDS	241-337-55467	herbicide	pendimethalin	Tenkoz, Inc	No	Caution	Pretransplant	24 hrs
Admire Pro 4.6F	MSDS	264-827	insecticide	imidacloprid	Bayer Crop Sciences	No	Caution	14 days	12 hrs
Aframe	MSDS	100-1098	fungicide	azoxystrobin	Syngenta Crop Protection, LLC	No	Caution	No restriction stated on label	4 hrs
Agree WG	MSDS	70051-47	insecticide	<i>Bacillus thuringiensis</i>	Certis USA, LLC	No	Caution	No restriction stated on label	4 hrs
Agri-Mycin 17	MSDS	55146-96	bactericide	streptomycin sulfate	Nufarm Ag Products	No	Caution	No restriction stated on label	12 hrs
Aim EC	MSDS	279-3241	herbicide	carfentrazone	FMC Corp	No	Caution	Pretransplant	12 hrs
Alias 4F	MSDS	66222-156	insecticide	imidacloprid	ADAMA	No	Caution	14 days	12 hrs
Aliette WDG	MSDS	264-516	fungicide	aluminum tris (O-ethyl phosphate)	Bayer Crop Sciences	No	Caution	3 days	12 hrs
Antak	MSDS	19713-18	sucker control	C10 fatty alcohol	Drexel Chemical Co	No	Caution	7 days	24 hrs
Assail 30SG	MSDS	8033-36-70506	insecticide	acetamiprid	United Phosphorus, Inc	No	Caution	7 days	12 hrs
Assail 70WP	MSDS	8033-23-70506	insecticide	acetamiprid	United Phosphorus, Inc	No	Caution	7 days	12 hrs
Aza Direct	MSDS	71908-1-10163	insecticide	azadirachtin	Gowan Co	No	Caution	No restriction stated on label	4 hrs
Belay Insecticide	MSDS	59639-150	insecticide	clothianidin	Valent USA	No	Caution	14 days	12 hrs

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Besiege	MSDS	100-1402	insecticide	lambda-cyhalothrin + chloratrailiprole	Syngenta Crop Protection, LLC	Yes	Warning	40 days	24 hrs
Biobit HP	MSDS	73049-54	insecticide	<i>Bacillus thuringiensis</i>	Valent USA	No	Caution	No restriction stated on label	4 hrs
Blackhawk Naturalyte	MSDS	62719-523	insecticide	spinosad	Dow AgroSciences	No	Caution	3 days	4 hrs
Blanket 4F	MSDS	82534-5-55467	herbicide	sulfentrazone	Tenkoz, Inc	No	Caution	Pretransplant	12 hrs
Brigade 2EC	MSDS	279-3313	insecticide	bifenthrin	FMC Corp	Yes	Warning	Do not apply later than layby	12 hrs
Brigadier	MSDS	279-3332	insecticide	bifenthrin + imidacloprid	FMC Corp	Yes	Warning	Do not apply later than layby	12 hrs
Capture LFR	MSDS	279-3302	insecticide	bifenthrin	FMC Corp	Yes	Warning	Do not apply later than layby	12 hrs
Caravel	MSDS	60063-58	herbicide	clomazone	Sipcam Agro	No	Warning	Up to 7 days after transplanting	12 hrs
Carbaryl 4L - Drexel	MSDS	19713-49	insecticide	carbaryl	Drexel Chemical Co	No	Caution	2 days	12 hrs
Carbaryl 4L - Loveland Products	MSDS	34704-447	insecticide	carbaryl	Loveland Products	No	Caution	2 days	12 hrs
Civic 3ME	MSDS	87290-55-89391	herbicide	clomazone	Innvictis Crop Care, LLC	No	Caution	Up to 7 days after transplanting	12 hrs
Clomate 3ME	MSDS	45002-60	herbicide	clomazone	Albaugh, LLC	No	Caution	Up to 7 days after transplanting	12 hrs
Command 3ME	MSDS	279-3158-5905	herbicide	clomazone	FMC Corp	No	Caution	Up to 7 days after transplanting	12 hrs
Coragen	MSDS	279-9606	insecticide	chlorantraniliprole	FMC Corp	No	Caution	1 days	4 hrs
Coragen eVo	MSDS	279-9661	insecticide	chlorantraniliprole	FMC Corp	No	Caution	1 days	4 hrs
Cueva	MSDS	67702-2-70051	fungicide	copper octanoate	Certis USA, LLC	No	Caution	No restriction stated on label	4 hrs
Denim	MSDS	100-903	insecticide	emamectin benzoate	Syngenta Crop Protection, LLC	Yes	Danger	14 days	48 hrs
Devrinol 2-XT	MSDS	70506-301	herbicide	napropamide	United Phosphorus, Inc	No	Caution	Pretransplant	24 hrs
Devrinol 50-DF	MSDS	70506-36	herbicide	napropamide	United Phosphorus, Inc	No	Caution	Pretransplant	24 hrs
Devrinol DF-XT	MSDS	70506-36	herbicide	napropamide	United Phosphorus, Inc	No	Caution	Pretransplant	24 hrs
Dipel DF	MSDS	73049-39	insecticide	<i>Bacillus thuringiensis</i>	Valent USA	No	Caution	No restriction stated on label	4 hrs
Dipel ES	MSDS	73049-17	insecticide	<i>Bacillus thuringiensis</i>	Valent USA	No	Caution	No restriction stated on label	4 hrs
Drexalin Plus	MSDS	19713-510	sucker control	flumetralin	Drexel Chemical Co	No	Caution	No restriction stated on label	12 hrs

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Durivo	MSDS	100-1318	insecticide	thiamethoxam	Syngenta Crop Protection, LLC	No	Caution	At transplanting	12 hrs
Endigo ZC	MSDS	100-1276	insecticide	lambda-cyhalothrin + thiamethoxam	Syngenta Crop Protection, LLC	Yes	Warning	40 days	24 hrs
Exirel	MSDS	352-859	insecticide	cyantranilprole	FMC Corp	No	Warning	7 days	12 hrs
Fair 30	MSDS	51873-9	sucker control	maleic hydrazide	Fair Products, Inc	No	Caution	7 days	12 hrs
Fair 80 SP	MSDS	51873-17	sucker control	maleic hydrazide	Fair Products, Inc	No	Caution	7 days	12 hrs
Fair 85	MSDS	51873-7	sucker control	C8-C10 fatty alcohol	Fair Products, Inc	No	Danger	No restriction stated on label	24 hrs
Fair Plus	MSDS	51873-2	sucker control	maleic hydrazide	Fair Products, Inc	No	Caution	7 days	12 hrs
Fair-Tac C -10	MSDS	51873-5	sucker control	C10 fatty alcohol	Fair Products, Inc	No	Danger	No restriction stated on label	
Forum	MSDS	241-427	fungicide	dimethomorph	BASF Ag Products	No	Caution	0 days	12 hrs
Framework 3.3 EC	MSDS	1381-216	herbicide	pendimethalin	Winfield United	No	Caution	Pretransplant	24 hrs
FST-7	MSDS	51873-6	sucker control	C10 fatty alcohol + maleic hydrazide	Fair Products, Inc	No	Danger	7 days	24 hrs
Fulfill 50WDG	MSDS	100-912	insecticide	pymetrozine	Syngenta Crop Protection, LLC	No	Caution	14 days	12 hrs
Gramoxone SL 2.0	MSDS	100-1431	herbicide	paraquat	Syngenta Crop Protection, LLC	Yes	Danger/Poison	Pretransplant	24 hrs
Gramoxone SL 3.0	MSDS	100-1652	herbicide	paraquat	Syngenta Crop Protection, LLC	Yes	Danger/Poison	Pretransplant	24 hrs
Gramoxone SL 3.0 Supplemental Label									
Harbour	MSDS	66222-121	bactericide	streptomycin	ADAMA	No	Caution	No restriction stated on label	12 hrs
Helena Pendimethalin	MSDS	241-337-5905	herbicide	pendimethalin	Helena Chemical Co	No	Caution	Not foliarly applied	24 hrs
Helm Sulfentrazone 4F	MSDS	74530-63	herbicide	sulfentrazone	Helm Agro US, Inc	No	Caution	Not foliarly applied	12 hrs
HM-1512 AG	MSDS	82534-5-5905	herbicide	sulfentrazone	Helena Chemical Co	No	Warning	Not foliarly applied	12 hrs
Instill	MSDS	49538-5-92632	bactericide/fungicide	copper sulfate pentahydrate	S.T. Biologicals, Inc	No	Warning	0 days	48 hrs
Javelin WG	MSDS	70051-66	insecticide	<i>Bacillus thuringiensis</i>	Certis USA, LLC	No	Caution	No restriction stated on label	4 hrs
KOP-5	MSDS	197713-695	algaeicide/bactericide/fungicide	copper sulfate pentahydrate	Drexel Chemical Co	No	Warning	No restriction stated on label	24-48 hrs

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K-PHITE 7LP	MSDS	73806-1	fungicide/bactericide	Mono- and dipotassium salts of phosphorus acid	Plant Food Systems, Inc	No	Caution	0 days	4 hrs
Lannate LV	MSDS	352-384	insecticide	methomyl	Corteva AgriScience	Yes	Danger/Poison	14 days air or fire cured, 5 days flue cured	48 hrs
Lannate SP	MSDS	352-342	insecticide	methomyl	Corteva AgriScience	Yes	Danger/Poison	14 days air or fire cured, 5 days flue cured	48 hrs
Leven-38	MSDS	19713-105	sucker control	C10 fatty alcohol + maleic hydrazide	Drexel Chemical Co	No	Caution	7 days	24 hrs
Lifeguard WG	MSDS	70051-119	fungicide	<i>Bacillus mycooides</i>	Certis USA, LLC	No	Caution	0 days	4 hrs
Manzate Pro-Stick	MSDS	70506-234	fungicide	mancozeb	United Phosphorus, Inc	No	Caution	30 days	24 hrs
Manzate Pro-Stick 24C renewal for KY (expires March 16, 2027)									
MetaStar 2E	MSDS	71532-5-66330	fungicide	metalaxyl	LG Life Sciences	No	Warning	Not foliarly applied	48 hrs
Mocap 15% Granular	MSDS	5481-9040	insecticide	ethoprop	Ambac Chemical Corporation	Yes	Danger/Poison	Not foliarly applied	48 hrs
Nordox	MSDS	48142-1	fungicide	Cuprous Oxide	Nordox Industrier	No	Caution	No restriction stated on label	24 hrs
Nordox 75 WG	MSDS	48142-4	fungicide	Cuprous Oxide	Nordox Industrier	No	Caution	No restriction stated on label	12 hrs
Nuprid 2SC	MSDS	228-572	insecticide	imidacloprid	Nufarm Ag Products	No	Caution	14 days	12 hrs
Nuprid 4.6F Pro	MSDS	228-527	insecticide	imidacloprid	Nufarm Ag Products	No	Caution	14 days	12 hrs
Nuprid 4F Max	MSDS	228-528	insecticide	imidacloprid	Nufarm Ag Products	No	Caution	14 days	12 hrs
Off-Shoot-T	MSDS	400-452	sucker control	C8-C10 fatty alcohol	Chemtura AgroSolutions	No	Danger	No restriction stated on label	24 hrs
Orondis Gold 200	MSDS	100-1571	fungicide	oxathiapirolin	Syngenta Crop Protection, LLC	No	Caution	7 days	4 hrs
Orondis Ultra A	MSDS	100-1572	fungicide	oxathiapirolin	Syngenta Crop Protection, LLC	No	Caution	7 days	4 hrs
Orondis Ultra B	MSDS	100-1254	fungicide	mandipropamid	Syngenta Crop Protection, LLC	No	None	7 days	4 hrs
Orthene 75 SP	MSDS	14225	insecticide	acephate	Arysta Lifescience North America, LLC	No	Caution	3 days	24 hrs
Orthene 97	MSDS	59639-33	insecticide	acephate	Ambac Chemical Corporation	No	Caution	3 days	24 hrs

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Penncozeb 75 DF	MSDS	70506-185	fungicide	mancozeb	United Phosphorus, Inc	No	Caution	21 d in flue-cured tobacco	24 hrs
Pin-Dee 3.3 EC	MSDS	19713-668	herbicide	pendimethalin	Drexel Chemical Co	No	Danger	Not foliarly applied	24 hrs
Platinum 75 SG	MSDS	100-1291	insecticide	thiamethoxam	Syngenta Crop Protection, LLC	No	Caution	Not foliarly applied	12 hrs
Plucker Plus	MSDS	19713-649	sucker control	C8-C10 fatty alcohol + flumetralin	Drexel Chemical Co	No	Caution	No restriction stated on label	12 hrs
Poast	MSDS	7969-58	herbicide	sethoxydim	BASF Ag Products	No	Warning	42 days	12 hrs
Presidio	MSDS	59639-140	fungicide	fluopicolide	Valent USA	No	Caution	7 days	12 hrs
Prime+ EC	MSDS	100-640	sucker control	flumetralin	Syngenta Crop Protection, LLC	No	Danger	No restriction stated on label	12 hrs
Prowl 3.3 EC	MSDS	241-337	herbicide	pendimethalin	BASF Ag Products	No	Caution	Not foliarly applied	24 hrs
Prowl H2O	MSDS	241-418	herbicide	pendimethalin	BASF Ag Products	No	Caution	Not foliarly applied	24 hrs
Quadris Flowable	MSDS	100-1098	fungicide	azoxystrobin	Syngenta Crop Protection, LLC	No	Caution	0 days	4 hrs
Revus	MSDS	100-1254	fungicide	mandipropamid	Syngenta Crop Protection, LLC	No	Caution	7 days	4 hrs
Ridomil Gold SL	MSDS	100-1202	fungicide	mefenoxam	Syngenta Crop Protection, LLC	No	Warning	Last cultivation	48 hrs
Round-Up PowerMax	MSDS	524-549	herbicide	glyphosate	Monsanto	No	Caution	Not foliarly applied to tobacco	4 hrs
Royal MH-30	MSDS	400-84	sucker control	maleic hydrazide	Arysta Lifescience North America, LLC	No	Caution	7 days	12 hrs
Royal MH-30 SG	MSDS	400-165	sucker control	maleic hydrazide	Arysta Lifescience North America, LLC	No	Caution	7 days	12 hrs
Royal MH-30 Xtra	MSDS	400-452	sucker control	maleic hydrazide	Arysta Lifescience North America, LLC	No	Caution	7 days	12 hrs
Royaltac	MSDS	400-135	sucker control	C10 fatty alcohol	Arysta Lifescience North America, LLC	No	Danger	No restriction stated on label	24 hrs
Royaltac M	MSDS	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	MSDS	70506-318	herbicide	pendimethalin	United Phosphorus Inc	No	Caution	Not foliarly applied	24 hrs
Satellite Flex	MSDS	70506-318	herbicide	pendimethalin	United Phosphorus Inc	No	Danger	Not foliarly applied	24 hrs
Satellite Hydrocap	MSDS	70506-230	herbicide	pendimethalin	United Phosphorus Inc	No	Danger	Not foliarly applied	24 hrs

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Sevin 4F	MSDS	61842-38	insecticide	carbaryl	NovaSource	No	Caution	2 days	12 hrs
Sevin XLR Plus	MSDS	61842-37	insecticide	carbaryl	NovaSource	No	Caution	2 days	12 hrs
Shutdown	MSDS	70506-326	herbicide	sulfentrazone	United Phosphorus Inc	No	Danger	Not foliarly applied	12 hrs
Spartan 4F	MSDS	279-3220	herbicide	sulfentrazone	FMC Corp	No	Caution	Not foliarly applied	12 hrs
Spartan Charge	MSDS	279-3337	herbicide	sulfentrazone + carfentrazone	FMC Corp	No	Caution	Not foliarly applied	12 hrs
Stealth	MSDS	34704-868	herbicide	pendimethalin	Loveland Products	No	Caution	Not foliarly applied	24 hrs
Steward	MSDS	279-9596	insecticide	indoxacarb	FMC Corp	No	Caution	14 days	12 hrs
Sucker Plucker	MSDS	19713-35	sucker control	C8-C10 fatty alcohol	Drexel Chemical Co	No	Danger	7 days	24 hrs
Sucker Stuff	MSDS	19713-1	sucker control	maleic hydrazide	Drexel Chemical Co	No	Caution	3 wk (21 days)	12 hrs
Sulfentrazone 4L	MSDS	42750-357	herbicide	sulfentrazone	Albaugh, LLC/Agri Star	No	Warning	Not foliarly applied	12 hrs
Sulfin 4SC	MSDS	82534-5-88783	herbicide	sulfentrazone	Summit Agro USA, LLC	No	Warning	Not foliarly applied	12 hrs
Super Sucker Stuff	MSDS	19713-20	sucker control	maleic hydrazide	Drexel Chemical Co	No	Caution	3 wk (21 days)	12 hrs
Telone C-17	MSDS	62719-12	soil fumigant	dichloroprene + chloropicrin	Dow AgroSciences	Yes	Danger/Poison	Not foliarly applied	5 d (120 hrs) - see label
Telone II	MSDS	62719-32	soil fumigant	dichloroprene	Dow AgroSciences	Yes	Warning	Not foliarly applied	5 d (120 hrs) - see label
Terramaster 4 EC	MSDS	400-422	fungicide	etridiazole	Chemtura AgroSolution	No	Danger	Not foliarly applied	12 hrs
Tombstone	MSDS	34704-912	insecticide	cyfluthrin	Loveland Products	Yes	Danger	Up to 7 days after transplanting	12 hrs
Ultra Flourish	MSDS	55146-73	fungicide	mefenoxam	Nufarm Ag Products	No	Warning	Not foliarly applied	48 hrs
Up-Stage 3CS	MSDS	70506-353	herbicide	clomazone	UPL NA Inc	No	Warning	65 days	12 hrs
Vapam HL	MSDS	5481-468	soil fumigant	sodium methyldithiocarbamate	Ambac Chemical Corporation	Yes	Danger/Poison	Not foliarly applied	5 d (120 hrs) - see label
Verimark	MSDS	279-9616	insecticide	cyazypyr	Dupont	No	Caution	No restriction stated on label	4 hrs
Voliam Flexi	MSDS	100-1319	insecticide	thiamethoxam + chlorantraniprole	Syngenta Crop Protection, LLC	No	Caution	14 days	12 hrs
Vopak 3ME	MSDS	35915-25-66222	herbicide	clomazone	Adama USA	No	Warning	65 days	12 hrs
Warrior II with Zeon Technology	MSDS	100-1295	insecticide	lambda-cyhalothrin	Syngenta Crop Protection, LLC	Yes	Warning	40 days	24 hrs

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Widow	MSDS	34704-893	insecticide	imidacloprid	Loveland Products	No	Caution	14 days	12 hrs
Willowood Clomazone 3ME	MSDS	87290-55	herbicide	clomazone	Willowood USA	No	Caution	Product not applied past 7 days after	12 hrs
Willowood Imidacloprid 4SC	MSDS	87290-26	insecticide	imidacloprid	Willowood USA	No	Caution	14 days	12 hrs
Willowood Sulfentrazone 4SC	MSDS	87290-59	herbicide	sulfentrazone	Willowood USA	No	Warning	Not foliarly applied	12 hrs
XenTari	MSDS	73049-40	insecticide	<i>Bacillus thuringiensis</i>	Valent USA	No	Caution	No restriction stated on label	12 Hrs
Xyler	MSDS	89118-12	Fungicide	metalaxyl	Vive Crop Protection Inc.	No	Caution	Last cultivation	48 hrs
Zone 4F	MSDS	74530-63	herbicide	sulfentrazone	Helm Agro US, Inc	No	Warning	Not foliarly applied	12 hrs

¹ RUP: Restricted Use Pesticide

² PHI: Pre-Harvest Interval

³ REI: Restricted-Entry Interval

Disclaimer: This is a listing of the most commonly used pesticides and is not a total listing of all pesticides registered for use on tobacco. Listing of certain products and omission of others does not constitute a recommendation or endorsement.

Updated November 8, 2024

For access to labels not listed, visit

<https://www.cdms.net/Label-Database>