



WISCONSIN* HERBICIDE MODE OF ACTION CHART (SEE OTHER SIDE FOR COMBINATION PRODUCTS)

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Mode of action	Group number & Herbicide site of action	Chemical family	Active ingredient	Product trade name® example	
Lipid Synthesis Inhibitors	1	Aryloxyphenoxy-propionate 'FOPs'	fenoxaprop-P	Fusion, Wolverine, others	
			fluazifop-P	Fusilade DX	
			quizalofop-P	Assure II, Targa	
Lipid Synthesis Inhibitors	1	Cyclohexanedione 'DIMs'	clethodim	Select Max, others	
			sethoxydim	Poast, Poast Plus	
			Phenylpyrazoline 'DENS'	pinoxaden	Axial XL
Amino Acid Synthesis Inhibitors	2	ALS Inhibitors	imazamox	Raptor, Beyond	
			imazapic	Plateau	
			imazaquin	Scepter	
			imazethapyr	Pursuit	
			Pyrimidinyl (thio) benzoate	bispyribac-sodium	Velocity, Tradewind
			Sulfonylaminocarbonyl-triazolinone	flucarbazone-sodium	Everest, Sierra
				propoxycarbazine-sodium	Component of Rimfire Max
			Sulfonylurea	thiencarbazine-methyl	Component of Corvus, others
				chlorimuron-ethyl	Classic
				chlorsulfuron	Glean
				foramsulfuron	Component of Derigo
				halosulfuron-methyl	Permit
				iodosulfuron	Autumn
				mesosulfuron	Component of Rimfire Max
				metsulfuron-methyl	Ally
				nicosulfuron	Accent Q
				primisulfuron-methyl	Beacon
			Triazolopyrimidine	prosulfuron	Peak
				rimsulfuron	Resolve
				thifensulfuron-methyl	Harmony
				tribenuron-methyl	Express
				triflurosulfuron-methyl	UpBeet
				cloransulam-methyl	FirstRate
florasulam	Component of Orion				
Triazolopyrimidine	flumetsulam	Python			
	penoxsulam	Pindar, others			
	pyroxsulam	Goldsky, others			
9	EPSP Synthase Inhibitor	Glycine	glyphosate	Roundup, others	
Growth Regulators	4	Synthetic Auxin	Arylpicolinate	halauxifen-methyl	Elevore, Component of Quelex
			Benzoic acid	dicamba	Banvel, Clarity, DiFlexx, Engenia, XtendiMax, others
				aminopyralid	Milestone
			Pyridine carboxylic acid	clopyralid	Stinger
				fluroxypyr	Component of Weld
				triclopyr	Trycera
			Quinoline carboxylic acid	quinclorac	Facet
			Phenoxy-carboxylic-acid	2,4-D	2,4-D, Enlist One
				MCPA	MCPA, others
			19	Auxin Transport	Phthalamate Semicarbazone

Mode of action	Group number & Herbicide site of action	Chemical family	Active ingredient	Product trade name® example	
Photosynthesis Inhibitors	5	Photosystem II Inhibitors (different binding than 6 & 7)	Phenyl-carbamate	desmedipham	Alphanex
			phenmedipham	Component of Betamix	
			atrazine	AAtrex, others	
			Triazine	prometryn	Caparol
			simazine	Princep	
			Triazinone	hexazinone	Velpar
			metribuzin	Tricor, others	
Photosynthesis Inhibitors	6	Photosystem II Inhibitors (different binding than 5 & 7)	Benzothiadiazole	bentazon	Basagran, others
	7	Photosystem II Inhibitors (different binding than 5 & 6)	Nitrile	bromoxynil	Brox, others
Photosynthesis Inhibitors	7	Photosystem II Inhibitors (different binding than 5 & 6)	Urea	diuron	Diuron
			linuron	Lorox, Linex	
Nitrogen Metabolism Inhibitor	10	Glutamine Synthesis Inhibitor	Phosphinic acid	glufosinate	Liberty
Pigment Inhibitors	13	Diterpene Synthesis Inhibitor	Isoxazolidinone	clomazone	Command 3ME
	27	HPPD Inhibitors	Isoxazole	isoxaflutole	Balance Flexx
			Pyrazole	pyrasulfotole	Component of Huskie
			Pyrazolone	topramezone	Armezon, Impact
			Triketone	mesotrione	Callisto
tembotrione	Laudis				
Cell Membrane Disrupters	14	PPO Inhibitors	Triazolinone	sulfentrazone	Spartan
			carfentrazone-ethyl	Aim	
			fluthiacet-methyl	Cadet	
			acifluorfen	Ultra Blazer	
			Diphenylether	fomesafen	Flexstar, Reflex, others
			lactofen	Cobra, Phoenix	
Cell Membrane Disrupters	14	PPO Inhibitors	N-phenylphthalimide	flumiclorac	Resource
			flumioxazin	Valor	
			Pyrimidinedione	saflufenacil	Sharpen
Cell Membrane Disrupters	22	Photosystem I Electron Diverter	Bipyridylum	diquat	Reglone
			paraquat	Gramoxone SL	
Seedling Root Growth Inhibitors	3	Microtubule Inhibitors	Benzamide	pronamide	Kerb
			Dinitroaniline	ethalfluralin	Sonalan
			pendimethalin	Prowl H2O, others	
Seedling Shoot Growth Inhibitors	8	Lipid Synthesis Inhibitors (not ACCase)	Thiocarbamate	trifluralin	Treflan, others
			Thiocarbamate	cycloate	Ro-Neet
			EPTC	Eptam	
Seedling Shoot Growth Inhibitors	15	Long-chain Fatty Acid Inhibitors	Chloroacetamide	acetochlor	Degree, Harness, Surpass, Warrant, others
			S-metolachlor	Dual II Magnum, others	
			dimethenamid	Outlook	
			Oxyacetamide	flufenacet	Component of Axiom
			Isoxazoline	pyroxasulfone	Zidua
Seedling Shoot Growth Inhibitors	16	Specific Site Unknown	Benzofurane	ethofumesate	Nortron



WISCONSIN* HERBICIDE COMBINATION PRODUCTS (SEE OTHER SIDE FOR MODE OF ACTION KEY)

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Premix trade name®	Active ingredient	Product trade name® example	Site of action
ACURON	bicyclopyrone	--	27
	mesotrione	Callisto	27
	atrazine	AAtrex	5
	S-metolachlor	Dual II Magnum	15
ACURON FLEXI	bicyclopyrone	--	27
	mesotrione	Callisto	27
	S-metolachlor	Dual II Magnum	15
AFFINITY BROADSPEC	thifensulfuron-methyl	Harmony	2
	tribenuron-methyl	Express	2
AFFORIA	thifensulfuron-methyl	Harmony	2
	tribenuron-methyl	Express	2
	flumioxazin	Valor	14
ANTHEM ATZ	pyroxasulfone	Zidua	15
	fluthiacet-methyl	Cadet	14
	atrazine	AAtrex	5
ANTHEM FLEX	pyroxasulfone	Zidua	15
	carfentrazone-ethyl	Aim	14
ANTHEM MAXX	pyroxasulfone	Zidua	15
	fluthiacet-methyl	Cadet	14
ARMEZON PRO	tropamezone	Armezon	27
	dimethenamid	Outlook	15
AUTHORITY ASSIST	sulfentrazone	Spartan	14
	imazethapyr	Pursuit	2
AUTHORITY ELITE	sulfentrazone	Spartan	14
	S-metolachlor	Dual II Magnum	15
AUTHORITY FIRST	sulfentrazone	Spartan	14
	cloransulam-methyl	FirstRate	2
AUTHORITY MTZ	sulfentrazone	Spartan	14
	metribuzin	Tricor	5
AUTHORITY XL	sulfentrazone	Spartan	14
	chlorimuron-ethyl	Classic	2
AUTHORITY SUPREME	sulfentrazone	Spartan	14
	pyroxasulfone	Zidua	15
AUTUMN SUPER	iodosulfuron	Autumn	2
	thiencarbazone	--	2
AXIAL STAR	pinoxaden	Axial XL	1
	fluroxypyr	Starane	4
AXIOM	flufenacet	--	15
	metribuzin	Tricor	5
BASIS BLEND	rimsulfuron	Resolve	2
	thifensulfuron-methyl	Harmony	2
BETAMIX	desmedipham	--	5
	phenmedipham	N/A	5
BICEP II MAGNUM / BICEP LITE II MAGNUM	S-metolachlor	Dual II Magnum	15
	atrazine	AAtrex	5
BOUNDARY	S-metolachlor	Dual II Magnum	15
	metribuzin	Tricor	5
BREAKFREE NXT ATZ / BREAKFREE NXT LITE	acetochlor	Breakfree NXT	15
	atrazine	AAtrex	5
BROADAXE XC	S-metolachlor	Dual II Magnum	15
	sulfentrazone	Spartan	14
CALLISTO GT/	mesotrione	Callisto	27
	glyphosate	glyphosate	9
CALLISTO XTRA	mesotrione	Callisto	27
	atrazine	AAtrex	5
CANOPY/ CANOPY BLEND	chlorimuron-ethyl	Classic	2
	metribuzin	Tricor	5

Premix trade name®	Active ingredient	Product trade name® example	Site of action
CANOPY EX	chlorimuron-ethyl	Classic	2
	tribenuron-methyl	Express	2
CAPRENO	thiencarbazone-methyl	--	2
	tembotrione	Laudis	27
CINCH ATZ/ CINCH LITE ATZ	S-metolachlor	Dual II Magnum	15
	atrazine	AAtrex	5
COLT + SALVO	2,4-D	2,4-D	4
	fluroxypyr	Starane	4
COLT + SWORD	MCPA	MCPA	4
	fluroxypyr	Starane	4
CORVUS	thiencarbazone-methyl	--	2
	isoxaflutole	Balance Flexx	27
CURTAIL	clopyralid	Stinger	4
	2,4-D	2,4-D	4
CURTAIL M	clopyralid	Stinger	4
	MCPA	MCPA	4
DEGREE XTRA	acetochlor	Degree	15
	atrazine	AAtrex	5
DIFLEXX DUO	dicamba	DiFlexx	4
	tembotrione	Laudis	27
ENLIST DUO	2,4-D	2,4-D	4
	glyphosate	glyphosate	9
ENLITE	chlorimuron-ethyl	Classic	2
	thifensulfuron-methyl	Harmony	2
	flumioxazin	Valor	14
ENVIVE	chlorimuron-ethyl	Classic	2
	thifensulfuron-methyl	Harmony	2
	flumioxazin	Valor	14
EXPERT	S-metolachlor	Dual II Magnum	15
	atrazine	AAtrex	5
	glyphosate	glyphosate	9
EXTREME	imazethapyr	Pursuit	2
	glyphosate	glyphosate	9
	flumioxazin	Valor	14
FIERCE	pyroxasulfone	Zidua	15
	flumioxazin	Valor	14
	pyroxasulfone	Zidua	15
FIERCE XLT	flumioxazin	Valor	14
	pyroxasulfone	Zidua	15
	chlorimuron-ethyl	Classic	2
FIERCE MTZ	flumioxazin	Valor	14
	pyroxasulfone	Zidua	15
	metribuzin	Tricor	5
FLEXSTAR GT	fomesafen	Flexstar	14
	glyphosate	glyphosate	9
	aminopyralid	Milestone	4
FOREFRONT HL	2,4-D	2,4-D	4
	acetochlor	TopNotch	15
FULTIME NXT	atrazine	AAtrex	5
	fluazifop-P	Fusilade DX	1
FUSION	fenoxaprop-P	Puma	1
	pyroxasulfone	--	2
GOLDSKY	florasulam	--	2
	fluroxypyr	Starane	4
	S-metolachlor	Dual II Magnum	15
HALEX GT	mesotrione	Callisto	27
	glyphosate	glyphosate	9
	acetochlor	Harness	15
HARNESS MAX	mesotrione	Callisto	27

Premix trade name®	Active ingredient	Product trade name® example	Site of action
HARNESS XTRA	acetochlor	Harness	15
	atrazine	AAtrex	5
HORNET	clopyralid	Stinger	4
	flumetsulam	Python	2
HUSKIE	pyrasulfotole	--	27
	bromoxynil	Brox	6
HUSKIE COMPLETE	pyrasulfotole	--	27
	bromoxynil	Brox	6
	thiencarbazone-methyl	--	2
INSTIGATE	rimsulfuron	Resolve, Matrix	2
	mesotrione	Callisto	27
KEYSTONE NXT	acetochlor	Surpass NXT	15
	atrazine	AAtrex	5
LEXAR EZ	mesotrione	Callisto	27
	S-metolachlor	Dual II Magnum	15
	atrazine	AAtrex	5
LUMAX EZ	mesotrione	Callisto	27
	S-metolachlor	Dual II Magnum	15
	atrazine	AAtrex	5
MARVEL	fluthiacet-methyl	Cadet	14
	fomesafen	Flexstar	14
NORTHSTAR	primisulfuron-methyl	Beacon	2
	dicamba	Clarity	4
OPTILL	saflufenacil	Sharpen	14
	imazethapyr	Pursuit	2
OPTILL PRO	saflufenacil	Sharpen	14
	dimethenamid	Outlook	15
	imazethapyr	Pursuit	2
ORION	florasulam	--	2
	MCPA	MCPA	4
PANOFLEX	thifensulfuron-methyl	Harmony	2
	tribenuron-methyl	Express	2
PREFIX	S-metolachlor	Dual II Magnum	15
	fomesafen	Flexstar	14
QUELEX	halauxifen-methyl	Arylex	4
	florasulam	--	2
REALM Q	rimsulfuron	Resolve	2
	mesotrione	Callisto	27
RESICORE	clopyralid	Stinger	4
	acetochlor	Surpass NXT	15
RESOLVE Q	rimsulfuron	Resolve	2
	thifensulfuron-methyl	Harmony	2
REVULIN Q	nicosulfuron	Accent Q	2
	mesotrione	Callisto	27
RIMFIRE MAX	propoxycarbazone-sodium	--	2
	mesosulfuron	--	2
ROUNDUP XTEND	dicamba	XtendiMax	4
	glyphosate	glyphosate	9
ROWEL FX	flumioxazin	Valor	14
	chlorimuron-ethyl	Classic	2
SEQUENCE	S-metolachlor	Dual II Magnum	15
	glyphosate	glyphosate	9
SOLSTICE	mesotrione	Callisto	27
	fluthiacet-methyl	Cadet	14
SONIC	sulfentrazone	Spartan	14
	cloransulam-methyl	FirstRate	2

Premix trade name®	Active ingredient	Product trade name® example	Site of action
SPARTAN CHARGE	sulfentrazone	Spartan	14
	carfentrazone-ethyl	Aim	14
SPARTAN ELITE	sulfentrazone	Spartan	14
	S-metolachlor	Dual II Magnum	15
SPIRIT	prosulfuron	Peak	2
	primisulfuron-methyl	Beacon	2
STANZA	clopyralid	Stinger	4
	flumetsulam	Python	2
STARANE FLEX	florasulam	--	2
	fluroxypyr	Starane	4
STATUS	diflufenzopyr	--	19
	dicamba	Clarity	4
STEADFAST Q	nicosulfuron	Accent Q	2
	rimsulfuron	Resolve	2
STORM	bentazon	Basagran	6
	acifluorfen	Ultra Blazer	14
SURESTART II	acetochlor	Surpass NXT	15
	clopyralid	Stinger	4
SURVEIL	flumetsulam	Python	2
	flumioxazin	Valor	14
SYNCHRONY XP	cloransulam-methyl	FirstRate	2
	chlorimuron-ethyl	Classic	2
TRIPLEFLEX II	thifensulfuron-methyl	Harmony	2
	acetochlor	Harness	15
	clopyralid	Stinger	4
TRIVENCE	flumetsulam	Python	2
	chlorimuron-ethyl	Classic	2
	flumioxazin	Valor	14
VALOR XLT	flumioxazin	Valor	14
	chlorimuron-ethyl	Classic	2
VARISTO	imazamox	Raptor	2
	bentazon	Basagran	6
VELPAR ALFAMAX	hexazinone	Velpar	5
	diuron	--	7
VERDICT	saflufenacil	Sharpen	14
	dimethenamid	Outlook	15
WARRANT ULTRA	fomesafen	Reflex	14
	acetochlor	Warrant	15
WELD	MCPA	MCPA	4
	fluroxypyr	Starane	4
	clopyralid	Stinger	4
WIDEMATCH	clopyralid	Stinger	4
	fluroxypyr	Starane	4
WOLVERINE ADVANCED	fenoxaprop-P	--	1
	pyrasulfotole	--	27
YUKON	bromoxynil	Brox	6
	dicamba	Banvel	4
ZEMAX	halosulfuron-methyl	Permit	2
	mesotrione	Callisto	27
ZIDUA PRO	S-metolachlor	Dual II Magnum	15
	imazethapyr	Pursuit	2
ZIDUA PRO	saflufenacil	Sharpen	14
	pyroxasulfone	Zidua	15

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