

FUNGICIDE ACTIVITY GROUP TABLE

FRAC Code	Fungicide Mode of Action Group	Chemical Family	Active Constituent	Trade name (Product name)
1	MBC - fungicides (methyl benzimidazole carbamates)	benzimidazoles	carbendazim	various
			thiabendazole	various e.g. Tecto®
		thiophanates	thiophanate-methyl	various e.g. Banrot®
2	Dicarboximide	dicarboximides	iprodione	various e.g. Rovral®
			procymidone	various e.g. Sumisclex®
3	DMI - fungicides (demethylation inhibitors) (SB I: Class 1)	imidazoles	imazalil	various e.g. Fungaflor
			prochloraz	various e.g. Octave®
		piperazines	triforine	various e.g. Sapro®
		triazoles	bitertanol	various e.g. Baycor®
			cyproconazole	various e.g. Alto®
			difenoconazole	various e.g. Score®
			epoxiconazole	various e.g. Opus®
			fluquinconazole	various e.g. Jockey®
			flusilazole	various e.g. Nustar®
			flutriafol	various e.g. Armour®
			hexaconazole	various
			ipconazole	Rancona®
			mefentrifluconazole	Belanty®
			myclobutanil	various e.g. Systhane®
			penconazole	various e.g. Topas®
			propiconazole	various e.g. Tilt®
			tebuconazole	various e.g. Folicur®, Raxil®
			triadimefon	various e.g. Bayleton®
			triadimenol	various e.g. Bayfidan®, Baytan®
			triticonazole	various e.g. Premis®
		triazolinthiones	prothioconazole	various e.g. Prosaro®
4	PA - fungicides (phenylamides)	acylalanines	benalaxyl (+ mancozeb)	Galben®M
			furalaxyl	various e.g. Fongarid®
			metalaxyl	various e.g. Apron®, Ridomil®
			metalaxyl-M (=mefenoxam)	various e.g. Ridomil® Gold, Apron XL®
		oxazolidinones	oxadixyl (+propineb)	Rebound®
5	Amines ("morpholines") (SBI: Class II)	piperidines	fenpropidin	Seeker Duo
		spiroketal-amines	spiroxamine	various e.g. Prosper®

Please note:

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7	SDHI – fungicides (succinate dehydrogenase inhibitors)	N-methoxy-(phenyl- ethyl)-pyrazole-carboxamides	pydiflumetofen	Miravis®, Saltro®
		oxathiin-carboxamides	carboxin	various e.g. Vitavax®
			oxycarboxin	Plantvax®
		phenyl-benzamides	flutolanil	Monstar®, Moncut®
		pyridine-carboxamides	boscalid	various e.g. Filan®
		pyrazole -4-carboxamides	bixafen	Aviator® Xpro®
			benzovindiflupyr	Elatus®
			fluxapyroxad	Merivon®, Sercadis®, Systiva®
			inpyrfluxam	Excalia®
			isopyrazam	Seguris®
			penflufen	EverGol® Prime
			penthiopyrad	Fontelis®
			sedaxane	Vibrance®
		phenyl-oxo-ethyl thiophene amide	isofetamid	Kenja®
		pyridinyl-ethyl-benzamides	fluopyram	llevo®, Luna®
8	Hydroxy-(2-amino-) pyrimidine	hydroxy-(2-amino-) pyrimidines	bupirimate	Nimrod®
9	AP - fungicides (anilino-pyrimidines)	anilino-pyrimidines	cyprodinil	various e.g. Chorus®
			pyrimethanil	various e.g. Scala®
11	QoI - fungicides (quinone outside inhibitors)	methoxy- acrylate	azoxystrobin	various e.g. Amistar®, Dynasty®
		oximino-acetates	kresoxim-methyl	various e.g. Strobby®
			trifloxystrobin	various e.g. Flint®
		methoxy-carbamates	pyraclostrobin	various e.g. Cabrio®
		methoxy-acetamide	mandestrobin	Intuity®
12	PP - fungicides (phenylpyrroles)	phenylpyrroles	fludioxonil	various e.g. Maxim®
13	Aza-naphthalenes	aryloxyquinoline	quinoxifen	Legend®
		quinazolinone	proquinazid	Talendo®
14	AH - fungicides (aromatic hydrocarbons)	aromatic hydrocarbons	quintozene (PCNP)	various e.g. Terraclor®
			tolclofos-methyl	various e.g. Rizolex®

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	(chlorophenyls, nitroanilines)			
	Heteroaromatics	1,2,4-thiadiazoles	etridiazole	various e.g. Terrazole®
17	KRI - fungicides (keto reductase inhibitors) (SBI: Class III)	hydroxyanilides	fenhexamid	various e.g. Teldor®
		amino-pyrazolinone	fenpyrazamine	Prolectus®
19	Polyoxins	peptidyl pyrimidine nucleoside	polyoxin D	Intervene ®
20	Phenylureas	phenylureas	pencycuron	Monceren®
21	Qil - fungicides (quinone inside inhibitors)	cyano-imidazole	cyazofamid	RanMan®
		sulfamoyl-triazole	amisulbrom	Amishield®
		picolinamides	florylpicoxamid	various eg: Telbek®, Verpixo®
28	Carbamates	carbamates	iodocarb	various
			propamocarb	various e.g. Previcur®
29	Uncouplers of oxidative phosphorylation	2,6-dinitro-anilines	fluazinam	various e.g. Shirlan®
40	CAA - fungicides (carboxylic acid amides)	cinnamic acid amides	dimethomorph	various e.g. Acrobat®
		mandelic acid amides	mandipropamid	Revus®
43	Benzamides	pyridinylmethyl-benzamides	fluopicolide	Infinito®
45	QoSI - fungicides (quinone outside inhibitor, stigmatellin binding type)	triazolo-pyrimidylamine	ametoctradin	Zampro®
49	OSBPI-fungicides oxysterol binding protein homologue inhibition	piperidinyl-thiazole-isoxazolines	oxathiapiprolin	Orondis®, Zorvec® Enicade®
			fluoxapiprolin	Xivana® Prime
50	Actin disruption aryl-phenyl-ketones	benzophenone	metrafenone	Vivando®
		benzoylpyridine	pyriofenone	Kusabi®
52	DHODHI-fungicides (dihydroorotate dehydrogenase inhibitor)	phenyl-propanol	ipflufenquin	Migiwa®
M	Multi-site activity	inorganic	chlorine dioxide	Vibrex®

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			hydrogen peroxide + peroxyacetic acid	various e.g. Peratec®
			iodine	various
			mercury	Shirtan®
			sodium metabisulphite	Osku-vid®
		hydroxyquinoline	8-hydroxyquinoline	Staehler Grafting Wax
M1	Multi-site activity inorganic (electrophiles)	inorganic	copper cuprous oxide	various
			copper hydroxide	various e.g. Kocide®
			copper oxychloride	various e.g. Oxydul®
			copper ammonium acetate	various e.g. Liquicop®
			tribasic copper sulphate	various e.g. Tri-base Blue®
			copper octanoate	Tricop®
			copper hydroxide	various e.g. Kocide®
M2	Multi-site activity inorganic (electrophiles)	inorganic	sulphur	various e.g. Thiovit®, Kumulus®
			potassium bicarbonate	various e.g. Ecocarb®
			calcium polysulfide	Miller Lime Sulfur Solution Fungicide Insecticide®
M3	Multi-site activity dithiocarbamate and relatives (electrophiles)	dithio-carbamates and relatives	mancozeb	various e.g. Dithane® Rainshield® Neo Tec® Fungicide®
			metiram	Polyram®
			thiram	various e.g. Thiram®
			propineb	various e.g. Antracol®
			zineb	Zineb®
			ziram	various e.g. Ziram®
M4	Multi-site activity phthalimides (electrophiles)	phthalimides	captan	various e.g. Captan®
M5	Multi-site activity chloronitriles (phthalonitriles) (unspecified mechanism)	chloronitriles (phthalonitriles)	chlorothalonil	various e.g. Bravo®

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M6	Multi-site activity sulfamides (electrophiles)	sulfamides	tolyfluanid	Euparen Multi®
M7	Multi-site activity bis-guanidine (membrane disruptors, detergents)	bis-guanidines	guazatine	various e.g. Panoctine®
M9	Multi-site activity quinones (anthraquinones) (electrophiles)	quinones (anthraquinones)	dithianon	various e.g. Delan®
BM01	Multi-site activity plant extract	polypeptide (lectin)	extract from the cotyledons of lupine plantlets ("BLAD")	ProBlad Plus fungicide®
		terpene hydrocarbons, terpene alcohols and terpene phenols	Extract from <i>Melaleuca alternifolia</i> (tea tree) plant oils (mixtures): eugenol, geraniol, thymol	Timorex® Gold: Novellus Fungicide®
BM02	Multi-site activity microbial (living microbes or extract, metabolites)	<i>Streptomyces</i> sp.	<i>Streptomyces lydicus</i> strain WYEC108	Actinovate®
		<i>Bacillus</i> spp.	<i>B. acillus amyloliquefaciens</i> * strain QST 713	Serenade®
			*synonyms for <i>Bacillus amyloliquefaciens</i> are <i>Bacillus subtilis</i> and <i>B. subtilis</i> var. <i>amyloliquefaciens</i> (previous taxonomic classification)	
			<i>Bacillus amyloliquefaciens</i> * strain MBI600	Serifel®
		<i>Trichoderma</i> spp.	<i>Trichoderma harzianum</i> strain	VineVax®

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			AG1, AG2, AG3, AG5, AG8, AG11 & AG15	
			<i>Trichoderma harzianum rifae</i> isolate T-39	Trichodex® Bio-Fungicide
P01	Benzothiadiazole	Benzothiadiazole	Acibenzolar-S-methyl	Bion®
P03	Host plant defence inducer via systemic acquired resistance		isotianil	Routine® 200SC
P07 (33)	Phosphonates	ethyl phosphonate	fosetyl-Al	various e.g. Aliette®
			phosphorous acid and salts	various e.g. Foli-R-Fos®
U1	Unknown	potassium salts of fatty acids	potassium salts of fatty acids	EcoProtector®
U6	Unknown phenyl-acetamide	phenyl-acetamide	cyflufenamid	Flute®
U12	Cell membrane disruption (proposed) guanidines	guanidines	dodine	Syllit®

Notes

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1. The table does not include active constituents that have not yet been assigned an activity group by CropLife Australia.
2. Products with the same active constituent but different use patterns are also included in the table for example, seed treatments and foliar.
3. New active constituents and products can only be included in the activity group table once they are formally registered by the APVMA for commercial use.
4. Some products are mixtures of fungicides from different activity groups. These appear only once in the table.
5. If multiple trade names exist, the trade name entry is listed as various and the first registered trade name included.
6. ®Registered trademark.

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