

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	<i>various</i>
			thiabendazole	<i>Various</i> e.g. Tecto®
		thiophanates	thiophanate-methyl	<i>various</i> e.g. Banrot®
2	Dicarboximide	dicarboximides	iprodione	<i>various</i> e.g. Rovral®
			procymidone	<i>various</i> e.g. Sumisclex®
3	DMI - fungicides (demethylation inhibitors) (SBI: Class 1)	imidazoles	imazalil	<i>various</i> e.g. Fungaflor
			prochloraz	<i>various</i> e.g. Octave®
		piperazine	triforine	<i>various</i> e.g. Saprol®
		triazoles	bitertanol	<i>various</i> e.g. Baycor®
			cyproconazole	<i>various</i> e.g. Alto®
			difenoconazole	<i>various</i> e.g. Score®
			epoxiconazole	<i>various</i> e.g. Opus®
			fluquinconazole	<i>various</i> e.g. Jockey®
			flusilazole	<i>various</i> e.g. Nustar®
			flutriafol	<i>various</i> e.g. Armour®
hexaconazole	<i>various</i>			
ipconazole	Rancona®			

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cont. 3	cont. DMI - fungicides (demethylation inhibitors) (SBI: Class 1)	cont. triazoles	mefentrifluconazole	Belanty®
			myclobutanil	<i>various</i> e.g. Systhane®
			penconazole	<i>various</i> e.g. Topas®
			propiconazole	<i>various</i> e.g. Tilt®
			tebuconazole	<i>various</i> e.g. Folicur®, Raxil®
			triadimefon	<i>various</i> e.g. Bayleton®
			triadimenol	<i>various</i> e.g. Bayfidan®, Baytan®
		triticonazole	<i>various</i> e.g. Premis®	
		triazolinthiones	prothioconazole	<i>various</i> e.g. Prosaro®
4	PA - fungicides (phenylamides)	acylalanines	benalaxyl (+ mancozeb)	Galben®M
			furalaxyl	<i>various</i> e.g. Fongarid®
			metalaxyl	<i>various</i> e.g. Apron®, Ridomil®
			metalaxyl-M (=mefenoxam)	<i>various</i> e.g. Ridomil® Gold, Apron XL®
		oxazolidinone	oxadixyl (+propineb)	Rebound®
5	Amines ("morpholines") (SBI: Class II)	piperidines	fenpropidin	Seeker Duo
5	Amines ("morpholines") (SBI: Class II)	spiroketalamine	spiroxamine	<i>various</i> e.g. Prosper®

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7	SDHI (succinate dehydrogenase inhibitors)	n-methoxy-(phenyl- ethyl)-pyrazole-carboxamide	pydiflumetofen	Miravis®, Saltro®
		oxathiin carboxamides	carboxin	<i>various</i> e.g. Vitavax®,
			oxycarboxin	Plantvax®
		phenyl benzamides	flutolanil	Monstar®, Moncut®
		pyridine carboxamides	boscalid	<i>various</i> e.g. Filan®
		pyrazole -4-carboxamide	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	Ilevo®, Luna®		
8	Hydroxy-(2-amino-) pyrimidine	hydroxy-(2-amino-) pyrimidine	bupirimate	Nimrod®
9	AP - fungicides (anilinopyrimidines)	anilinopyrimidine	cyprodinil	<i>various</i> e.g. Chorus®
			pyrimethanil	<i>various</i> e.g. Scala®

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11	QoI - fungicides (quinone outside Inhibitors)	methoxy acrylate	azoxystrobin	<i>various</i> e.g. Amistar®, Dynasty®
		oximino acetates	kresoxim-methyl	<i>various</i> e.g. Stroby®
			trifloxystrobin	<i>various</i> e.g. Flint®
		methoxy carbamate	pyraclostrobin	<i>various</i> e.g. Cabrio®
		methoxy- acetamide	mandestrobin	Intuity®
12	PP - fungicides (Phenylpyrroles)	phenylpyrroles	fludioxonil	<i>various</i> e.g. Maxim®
13	Aza-naphthalenes	aryloxyquinolines	quinoxifen	Legend®
		quinazolinone	proquinazid	Talendo®
14	AH - fungicides (aromatic hydrocarbons) (chlorophenyls, nitroanilines)	aromatic hydrocarbons	quintozene (PCNP)	<i>various</i> e.g. Terraclor®
			tolclofos-methyl	<i>various</i> e.g Rizolex®
	Heteroaromatics	1,2,4-thiadiazole	etridiazole	<i>various</i> e.g. Terrazole®
17	KRI - fungicides (keto reductase inhibitors) (SBI: Class III)	hydroxylanilide	fenhexamid	<i>various</i> 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	Amicus blue®
		picolinamide	florylpicoxamid	Various eg: Telbek®,

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28	Carbamates	carbamate	iodocarb	<i>various</i>
			propamocarb	<i>various</i> e.g. Previcur®
29	Uncouplers of oxidative phosphorylation	2,6-dinitro-anilines	fluazinam	<i>various</i> e.g. Shirlan®
40	CAA - fungicides (carboxylic acid amides)	cinnamic acid amides	dimethomorph	<i>various</i> e.g. Acrobat®
		malic acid amides	mandipropamid	Revus®
43	Benzamides	pyridinylmethyl-benzamides	fluopicolide	Infito®
45	QoSI - fungicides (quinone outside inhibitor, stigmatellin binding type)	triazolo-pyrimidylamine	ametoctradin	Zampro®
49	OSBPI 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 dihydroorate dehydrogenase inhibitor fungicides	phenyl-propanol	ipflufenquin	Migiwa®
M	Multi-site activity	inorganic	chlorine dioxide	Vibrex®
			hydrogen peroxide + peroxyacetic acid	<i>various</i> e.g. Peratec®
			iodine	<i>various</i>
			mercury	Shirtan®
			sodium metabisulphite	Osku-vid®
		hydroxyquinoline	8-hydroxyquinoline	Staehler Grafting Wax

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M1	Multi-site activity inorganic (electrophiles)	inorganic	copper cuprous oxide	<i>various</i>
			copper hydroxide	<i>various</i> e.g. Kocide®
			copper oxychloride	<i>various</i> e.g. Oxydul®
			copper ammonium acetate	<i>various</i> e.g. Liquicop®
			tribasic copper sulphate	<i>various</i> e.g. Tri- base Blue®
			copper octanoate	Tricop®
M2	Multi-site activity inorganic (electrophiles)	inorganic	sulphur	<i>various</i> e.g. Thiovit®, Kumulus®
			potassium bicarbonate	<i>various</i> e.g. Ecocarb®
			calcium polysulfide	Miller Lime Sulfur Solution Fungicide Insecticide®
M3	Multi-site activity dithiocarbamate and relatives (electrophiles)	dithiocarbamate and relatives	mancozeb	<i>various</i> e.g. Dithane® Rainshield® Neo Tec® Fungicide®
			metiram	Polyram®
			thiram	<i>various</i> e.g. Thiram®
			propineb	<i>various</i> e.g. Antracol®
			zineb	Zineb®
			ziram	<i>various</i> e.g. Ziram®
M4	Multi-site activity phthalimides (electrophiles)	phthalimide	captan	<i>various</i> e.g. Captan®

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M5	Multi-site activity chloronitriles (phthalonitriles) (unspecified mechanism)	chloronitriles (phthalonitriles)	chlorothalonil	<i>various</i> e.g. Bravo®
M6	Multi-site activity sulfamides (electrophiles)	sulfamide	tolyfluanid	Euparen Multi®
M7	Multi-site activity bis- guanidine (membrane disruptors, detergents)	bis-guanidine	guazatine	<i>various</i> e.g. Panocrine®
M9	Multi-site activity quinones (anthraquinones) (electrophiles)	quinone (anthraquinone)	dithianon	<i>various</i> 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 *synonyms for <i>Bacillus amyloliquefaciens</i> are <i>Bacillus subtilis</i> and <i>B. subtilis</i> var. <i>amyloliquefaciens</i> (previous taxonomic	Serenade®

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Cont. BM02	cont. Multi-site activity microbial (living microbes or extract, metabolites)	cont. <i>Bacillus</i> spp.	classification)	
			<i>B.acillus amyloliquefaciens*</i> strain MBI600	Serifel®
		<i>Trichoderma</i> spp.	<i>Trichoderma harzianum</i> strain AG1, AG2, AG3, AG5, AG8, AG11 & AG15	VineVax®
			<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®

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Notes:

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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