

Tank Mixture Compatibility

RADIAL® is a broad spectrum foliar fungicide for use in Wheat and Barley, combining market leading strobilurin and triazole active ingredients. RADIAL® is compatible with a range of products and has been extensively tested for crop safety on multiple varieties and situations. The table below summarises the compatibility testing that has been undertaken with RADIAL®. Always read the label and the critical comments and warnings before using.

Product and maximum rate tested	Formulation	Active Constituents	Company	Physically Compatible Yes/No	Crop Safety Field tests	Recommended Adjuvant	Comments
2,4-D Amine 625 1.7 L/Ha	▲ SL	2,4-D amine 625 g/L	Adama	Yes - at ≥ 20 L/Ha	Yes x 9	Not Required	Acceptable crop safety in trials. Minor crop damage observed.
2,4-D Amine 625 1.4 L/Ha + Eclipse* 100SC 50 mL/Ha	▲ SL SC	2,4-D amine 625 g/L + metosulam 100 g/L	Adama + Bayer CropScience	Yes - Field tested only	Yes x 2	Wetspray® 1000 0.25%	Acceptable crop safety in trials.
Alpha-Cypermethrin 250SC 100 mL/Ha	▲ SC	alpha-cypermethrin 250 g/L	Various	Yes - Multiple water rates	Yes - User Tested	Not Required	Trials and user experience have shown mixes with alpha-cypermethrin 250SC formulations to be compatible and have acceptable crop safety
Aphidex® 150 g/Ha	▲ WG	pirimicarb 500 g/kg	Adama	Yes - at ≥ 80 L/Ha	Not Tested	Not Required	Not field tested. Expected to be acceptable crop safety.
Big Red* (Copper Oxide) 375 mL/Ha	▲ SC	copper oxide 500 g/L	Agrichem	Yes - Field tested only	Yes x 3	Not Required	Acceptable crop safety in trials. Minor crop spotting observed.
Cycocel* 750A 1.3 L/Ha	▲ SL	chlormequat 582 g/L	BASF	Yes - at ≥ 20 L/Ha	Not Tested	Not Required	Not field tested. Expected to be acceptable crop safety.
Eclipse* 100 SC 50 mL/Ha	▲ SC	metosulam 100 g/L	Bayer CropScience	Yes - at ≥ 50 L/Ha	Field Tested as a mix with 2,4 D	Wetspray® 1000 0.25%	Acceptable crop safety in trials.
Karate* Zeon 18 mL/Ha	▲ CS	lambda-cyhalothrin 250 g/L	Syngenta	Yes at 80 L/Ha	Yes - User Tested	Not Required	Field experience has shown acceptable crop safety and compatibility.
Le-Mat* 200 mL/Ha	▲ SL	omethoate 290 g/L	FMC	Yes - at ≥ 80 L/Ha	Not Tested	Not Required	Not field tested. Expected to be acceptable crop safety.
Lonestar® 750 WG 15 g/Ha	▲ WG	triasulfuron 750 g/kg	Adama	Yes - at ≥ 20 L/Ha	Yes x 5	Wetspray® 1000 0.25%	Good crop safety. This is the late post-emergent use rate for seed set reduction of Wild Radish.
Lynx® 7 g/Ha	▲ WG	metsulfuron methyl 600 g/kg	Adama	Yes - at ≥ 20 L/Ha	Yes x 9	Wetspray® 1000 0.25%	Acceptable crop safety in trials. Some typical metsulfuron crop effects where observed in trials.
Mandate® 210 mL/Ha	▲ EC	clodinafop-propargyl 240 g/L + cloquintocet-mexyl 60 g/L	Adama	Yes - at ≥ 20 L/Ha	Yes x 4	Uptake* 0.5%	Acceptable crop safety in trials. Use with wetting agent instead of oil.
MCPA LVE 570 1.84 L/Ha	▲ EC	MCPA 570 g/L as iso-octyl ester	Adama	Yes - at ≥ 30 L/Ha Requires constant agitation	Yes x 9	Not Required	Acceptable crop safety in trials. Some increase in crop effect is possible.
MCPA 750 (Amine) 660 mL/Ha	▲ SL	MCPA 750 g/L	Adama	Yes - at ≥ 20 L/Ha	Yes x 4	Not Required	Acceptable crop safety in trials.
Pyrinex® Super 1 L/Ha	▲ EC	chlorpyrifos 400 g/L + bifenthrin 20 g/L	Adama	Yes - at ≥ 80 L/Ha	Not Tested	Not Required	Not field tested. Expected to be acceptable crop safety.
Strike-Out® 350 mL/Ha	▲ EC	chlorpyrifos 500 g/L	Adama	Yes - at ≥ 80 L/Ha	Not Tested	Not Required	Not field tested. Expected to be acceptable crop safety.
Trojan* 15 mL/Ha	▲ CS	gamma-cyhalothrin 150 g/L	FMC	Yes at 80 L/h	Yes - User Tested	Not Required	Field experience has shown acceptable crop safety and compatibility.
Victory® SL 300 mL/Ha	▲ SL	clopyralid 300 g/L	Adama	Yes - at ≥ 20 L/Ha	Not Tested	Not Required	Not field tested. Expected to be acceptable crop safety.
Victory® SL 50 mL/Ha + LVE MCPA 600 mL/Ha	▲ SL	clopyralid 300 g/L + 570 LVE MCPA ester	Adama	Not Tested	Yes x 4	Not Required	Acceptable crop safety in trials.
Axial* 100 EC 300 mL/Ha	▲ EC	pinoxaden 100 g/L + cloquintocet-mexyl 25 g/L	Syngenta	Yes - at ≥ 20 L/Ha	Yes x 9	Adigor* 0.5%	This mixture including oil has shown increased crop effects. Use with caution at temperatures below 20°C.
Colt® 1.0 L/Ha	▲ EC	bromoxynil 250 g/L + diflufenican 25 g/L	Adama	Yes - at ≥ 50 L/Ha	Not Tested	Not Required	Only tank mix at rates below 750 mL and use with caution.
Dimethoate 500 mL/Ha	▲ EC	dimethoate 400 g/L	Adama	Yes - at ≥ 50 L/Ha	Yes x 1	Not Required	Testing has shown physical incompatibility can occur at high water rates. Use at water rates of 50 L/Ha or lower, spray immediately, under constant agitation and closely monitor filters.

▲ Compatible ▲ Compatible but exercise caution ▲ Not compatible

Product and maximum rate tested	Formulation	Active Constituents	Company	Physically Compatible Yes/No	Crop Safety Field tests	Recommended Adjuvant	Comments
Enforcer® 242 1 L/Ha	▲ SL	MCPA 420 g/L + picloram potassium salts 26 g/L	Adama	Yes - Field tested only	Yes x 2	Not Required	Acceptable crop safety in trials. Some increase in crop effect is possible.
Enforcer® 75-D 1 L/Ha	▲ SL	2,4-D 300 g/L + picloram 75 g/L	Adama	Yes - at ≥ 20 L/Ha	Not Tested	Not Required	Not field tested. See Enforcer 242.
2,4-D LV Ester 680 800 mL/Ha	▲ EC	2,4-D ester 680 g/L	Adama	Yes - at ≥ 30 L/Ha	Yes x 4	Not Required	Acceptable crop safety in trials. Some increase in crop effect is possible.
Flexi N* - UAN 50 L/Ha	▲ SL	nitrate 25% + ammonium 25% + urea 50%	CSBP	Yes - 50/50 Dilution	Yes x 5	Not Required	Some spotting observed in trials, but no different to solo UAN. Apply below 25°C. UAN can burn in some circumstances.
Legacy® MA 1.0 L/Ha	▲ EC	MCPA 250 g/L + diflufenican 25 g/L	Adama	Yes - at ≥ 50 L/Ha	Not Tested	Not Required	Acceptable safety in field trials. Best used before Z33 and below 25°C
Moddus Evo* 400 mL/Ha	▲ EC	trinexapac-ethyl 250 g/L	Syngenta	Yes - at ≥ 20 L/Ha	Yes x 5	Not Required	Normal crop shortening is observed. Use with caution.
Tackle® WG 20 g/Ha	▲ WG	chlorsulfuron 750 g/kg	Adama	Not Tested	Yes x 4	Wetspray® 1000 0.25%	Acceptable crop safety in field trials. However normal chlorsulfuron damage is expected.
Triathlon® 1 L/Ha	▲ EC	MCPA 250 g/L + diflufenican 25 g/L + bromoxynil 150 g/L	Adama	Yes - at ≥ 20 L/Ha	Yes x 5	Not Required	Acceptable safety in field trials. Best used before Z33 and below 25°C
Velocity* 1 L/Ha	▲ EC	bromoxynil 210 g/L + pyrasulfatole 37.5 g/L + mefenpyr-diethyl 9.4 g/L	Bayer CropScience	Yes - at ≥ 50 L/Ha	Not Tested	Uptake* 0.5%	Not field tested. This mixture including oil may give unacceptable crop effects. Use with caution.
Vortex® 820 mL/Ha	▲ SE	florasulam 6.25 g/L + 2,4-D LV Ester 300 g/L	Adama	Yes - at ≥ 50 L/Ha	Yes x 2	Uptake* 0.5%	Increased potential for crop affect at temperatures above 25°C. Use with caution.
Precept* 300 EC 1.0 L/Ha	▲ EC	MCPA 250 g/L + pyrasulfatole 50 g/L + mefenpyr-diethyl 12.5 g/L	Bayer CropScience	Yes - at ≥ 30 L/Ha	Not Tested	Hasten* 1% (tested) or can use Liase* 1.2 L/Ha	Applications with oil and where temperatures were above 25°C have shown increased crop affect. Use with caution.
Alpha-Scud® Elite 240 mL/Ha	▲ EC	alpha-cypermethrin 100 g/L	Adama	No - Multiple water rates	Commercial trials x 6	Not Required	Commercial use has shown physical incompatibility. Not recommended.
Crusader* 300 mL/Ha	▲ OD	pyroxulam 30 g/L + cloquintocet-mexyl 90 g/L	Dow AgroSciences	Yes - at ≥ 50 L/Ha	Not Tested	Wetspray® 1000 0.25%	Not field tested. Not recommended.
Cutlass® 500 400 mL/Ha	▲ SL	dicamba 500 g/L	Adama	Yes - at ≥ 25 L/Ha	Not Tested	Not Required	Not field tested. Increased crop effect is likely. Not recommended.
Cutlass® M 1.7 L/Ha	▲ SL	MCPA 340 g/L + dicamba 80 g/L	Adama	Yes - at ≥ 25 L/Ha	Not Tested	Not Required	Not field tested. Increased crop effect is likely. Not recommended.
Hussar* OD 100 mL/Ha	▲ OD	iodosulfuron 100 g/L + mefenpyr-diethyl 300 g/L	Bayer CropScience	Yes - at ≥ 50 L/Ha	Not Tested	Wetspray® 1000 0.25%	Not field tested. Crop damage likely. Not recommended.
Intervix* 750 mL/Ha	▲ SL	imazamox 33 g/L + imazapyr 14 g/L	BASF	Yes - at ≥ 70 L/Ha	Not Tested	Supercharge* 0.5%	Not field tested. Some increase in crop effect is likely. Not recommended.
Mentor® 200 g/Ha	▲ SC	metribuzin 750 g/L	Adama	Yes - at ≥ 20 L/Ha	Not Tested	Not Required	Not field tested. This mix is likely to increase Mentor® crop damage. Not recommended.
Pentagon® 400 g/Ha	▲ SC	tralkoxydim 400 g/kg	Adama	Yes - at ≥ 20 L/Ha	Not Tested	Amplify® 1%	Not field tested. Not recommended.
Trident® 25 g/Ha	▲ WDG	flumetsulam 800 g/kg	Adama	Yes - at ≥ 50 L/Ha	Not Tested	Uptake* 0.5%	Not field tested. Some increase in crop effect is likely. Not recommended.

Notes:

- Most compatibilities were conducted with RADIAL® at 840 mL/Ha, the highest label rate. Crop safety and any minor mixing issues are likely to be reduced at lower rates of RADIAL®
- For all mixtures observe the label requirements of the mixing partner, including recommended crop stage, spray volumes etc
- The physical compatibility test conducted in the laboratory was a more complete test than that conducted in field tests. Mixtures were compared at different water hardness and under different temperatures
- Mixtures requiring the addition of crop oils will always heighten the risk of an adverse crop effect and where possible should be avoided with RADIAL®
- Compatibility is limited to those specific products and product manufacturers listed unless an alternative product is clearly an equivalent formulation
- Products containing varying concentrations of active constituents to those listed may not be compatible with RADIAL®
- Adverse environmental conditions such as frosts, waterlogging, drought, pests or anything else that can stress the crop can compound adverse effects to the crop and should be avoided when tank mixing RADIAL®
- These mixes have not been tested by aerial application. Aerial application is likely to increase the potential for crop damage due to higher product concentrations

Adama recommend that all mixtures in the spray tank should be used immediately and not stored overnight.

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