

Gluconacetobacter diazotrophicus (Gd)

Pesticide Tank Mix Biological Compatibility Guide

Only products that were tested are included and formulations may differ internationally. Testing was conducted in a laboratory. Results in the field may differ. Non listed product may be compatible. The compatibility list will be updated as more products are tested.

Best Management Practices (BMP's)

- Add Gd to the tank last
- Ideally tank mix pH should be below 7
- Minimum water volume of 100 L/ha unless otherwise noted
- Keep tank mixes as simple as possible
- Spray solution as soon as possible
- Always follow tank mix partner application guidelines
- Optimal application temperatures:
 - Above 80% relative humidity: 10 - 30°C
 - Below 80% relative humidity: 10 - 25°C

Pesticide	Active Ingredient (AI)	Rate Tested of A.I. in Tank Mix	Product Sourced From	Registration Number	Group	Biological Compatibility	Guide
Insecticides	Acetamiprid	≤0.84 g/L	Czechia	5218-1	4A	✓	
	Esfenvalerate	≤0.2 g/L	Czechia	4794-3	3A	✓	
	Etofenprox	≤0.29 g/L	Czechia	5036-3	3A	✓	
	Gamma-cyhalothrin	≤0.096 g/L	Czechia	4549-3	3A	✓	
	Imidacloprid	≤0.36 g/L	USA	EPA 432-1318	4	✓	

Always read and follow label directions.

This information is for guidance only and used at the applicator's own risk. Azotic Technologies Limited assumes no responsibility.

Pesticide	Active Ingredient (AI)	Rate Tested of A.I. in Tank Mix	Product Sourced From	Registration Number	Group	Biological Compatibility	Guide
Fungicides	Azoxystrobin	≤15 g/L	UK	MAPP 18039	11	✓	
	Azoxystrobin + Difenconazole	≤1.25 g/L ≤1.25 g/L	Czechia	5230-0	3 11	✓	
	Benomyl	≤20.0 g/L	Japan	D7/FKL938	1	✓	
	Boscalid + Dimoxystrobin	≤0.5 g/L ≤0.5 g/L	UK	MAPP 16783	7 11	✓	
	Boscalid + Pyraclostrobin	≤1.25 g/L ≤2.5 g/L	Czechia	5481-1	7 11	✓	
	Chlorothalonil	≤25.17 g/L	USA	EPA 66222-276	M5	✓	Optimal pH of Chlorothalonil is 6-7. pH for Gd must be below 7.0.
	Chlorothalonil (+ Zn)	≤60 g/L	Canada	PMRA 28900	M5	✓	Apply within 4 hours. Optimal pH of Chlorothalonil is 6-7. pH for Gd must be below 7.0.
	Fluazinam	≤1.0 g/L	UK	MAPP 18406	29	✓	
	Lecithin	2.25%	Czechia	N/A	Natural	✓	
	Mancozeb (Zn+Mn)	≤50.33 g/L	USA	EPA 62719-396	M3	✓	Minimum 100 litres/ha of water. For best results, apply within 4 hours.
	Propiconazole	≤33.4 g/L	USA	EPA 53883-363	3	✓	Minimum 100 litres/ha of water. For best results, apply within 4 hours.
	Prothioconazole	≤1.98 g/L	UK	MAPP 14790	3	!	May be harmful to bacteria due to formulation.
	Prothioconazole	≤2.0 g/L	Germany	00A398-00	3	!	May be harmful to bacteria due to formulation.
	Prothioconazole + Fenpicoxamid	≤1.0 g/L ≤0.5 g/L	UK	MAPP 19930	3 21	!	May be harmful to bacteria due to formulation.
	Prothioconazole + Fluopyram	≤0.625 g/L ≤0.625 g/L	Czechia	4912-1	3 7	✓	
	Pydiflumetofen	≤2.0 g/L	Canada	PMRA 33213	7	✓	
	Pyraclostrobin	≤1.25 g/L	UK	MAPP 12639	11	✓	
Sulphur (liquid formulation)	≤12 g/L	Czechia	5058-1	M2	✓		

Pesticide	Active Ingredient (AI)	Rate Tested of A.I. in Tank Mix	Product Sourced From	Registration Number	Group	Biological Compatibility	Guide
Herbicides	2,4D dimethylamine	≤11.5 g/L	UK	MAPP 17597	4	✓	Minimum 150 litres/ha of water. Apply within 4 hours.
	2,4D choline	≤10.65 g/L	USA	EPA 62719-695	4	✓	Follow Best Management Practices. Use a minimum of 150 litres/ha of water. Apply within 4 hours. Later applications of Gd provide more consistent results.
	2,4D ethylhexyl ester	≤6.6 g/L	UK	MAPP 17615	4	✓	
	Acetochlor	≤29.37 g/L	USA	EPA 62719-672	15	✓	Follow Best Management Practices. Use a minimum of 150 litres/ha of water. Apply within 4 hours. Later applications of Gd provide more consistent results.
	Amidosulfuron + Iodosulfuron	≤0.15 g/L ≤0.04 g/L	UK	MAPP 16494	2	✓	
	Atrazine	≤22.37 g/L	USA	EPA 66222-36	5	✓	
	Atrazine	≤25.0 g/L	Canada	PMRA 18450	5	✓	
	Bicyclopyrone + Bromoxonil octonate	≤0.25 g/L ≤1.16 g/L	USA	EPA 100-1570	27 6	!	
	Dicamba	≤11.23 g/L	USA	EPA 42750-209	4	✓	
	Diflufenican + Florasulam	≤0.333 g/L ≤0.033 g/L	Czechia	5067-4	12 2	✓	
	Flufenacet	≤1.2 g/L	Czechia	5287-1	15	✓	
	Flufenacet + Terbutylazine	≤6.0 g/L ≤9.99 g/L	Czechia	5177-1	15 5	✓	
Fluroxypyr	≤1.0 g/L	UK	MAPP 16557	4	✓	Follow Best Management Practices. Use a minimum of 150 litres/ha of water. Apply within 4 hours. Later applications of Gd provide more consistent results.	

Pesticide	Active Ingredient (AI)	Rate Tested of A.I. in Tank Mix	Product Sourced From	Registration Number	Group	Biological Compatibility	Guide
Herbicides	Glufosinate-ammonium	≤5.88 g/L	USA	EPA 88685-2-84237	10	✓	Apply within 4 hours. Applications at high temperatures are detrimental to Gd. Follow best management practices.
	Glyphosate isopropylamine salt	≤16.83 g/L	USA	EPA 34704-929	9	✓	
	Glyphosate isopropylamine salt	≤17.8 g/L	USA	EPA 93236-6	9	✓	
	Glyphosate isopropylamine salt	≤45.0 g/L	UK	MAPP 12980	9	✓	
	Glyphosate potassium salt	≤22.5 g/L	UK	MAPP 15534	9	✓	
	Glyphosate potassium salt	≤22.5 g/L	UK	MAPP 17380	9	✓	
	Glyphosate potassium salt	22.5 g/L	Canada	PMRA 28198	9	!	May be harmful to bacteria due to proprietary formulation. If possible use a glyphosate isopropylamine (IPA) salt.
	Glyphosate potassium salt	22.5 g/L	Canada	PMRA 28487	9	!	May be harmful to bacteria due to proprietary formulation. If possible use a glyphosate isopropylamine (IPA) salt.
	Glyphosate potassium salt	≤17.28 g/L	USA	EPA 34704-1111	9	!	May be harmful to bacteria due to proprietary formulation. If possible use a glyphosate isopropylamine (IPA) salt.
	Glyphosate potassium salt	≤16.69 g/L	USA	EPA 524-537	9	!	May be harmful to bacteria due to proprietary formulation. If possible use a glyphosate isopropylamine (IPA) salt.
	MCPA	≤20 g/L	Czechia	5465-0D/1	4	✓	Minimum 100 litres/ha of water. Apply within 4 hours.

Pesticide	Active Ingredient (AI)	Rate Tested of A.I. in Tank Mix	Product Sourced From	Registration Number	Group	Biological Compatibility	Guide
Herbicides	Metazachlor + Dimethenamid	≤1.25 g/L ≤1.25 g/L	Czechia	4848-0	15	!	
	Mesotrione	≤0.94 g/L	New Zealand	HSR002475	27	✓	
	Pinoxaden	≤1.19 g/L	USA	EPA 100-1256	1	✓	
	Prosulfuron	≤0.1 g/L	UK	MAPP 15521	2	✓	
	Pyridate	≤2.25 g/L	UK	MAPP 17875	6	✓	
	Pyridate	≤4.5 g/L	UK	MAPP 19474	6	✓	
	Saflufenacil	≤0.51 g/L	USA	EPA 7969-278	14	✓	
	S-metolachlor	≤15.27 g/L	USA	EPA 100-818	15	✓	Follow Best Management Practices. Use a minimum of 150 litres/ha of water. Apply within 4 hours. Later applications of Gd provide more consistent results.
	S-metolachlor	≤6.72 g/L	UK	MAPP 14649	15	✓	Follow Best Management Practices. Use a minimum of 150 litres/ha of water. Apply within 4 hours. Later applications of Gd provide more consistent results.
	S-metolachlor + Mesotrione	≤6.25 g/L ≤0.75 g/L	UK	MAPP 17722	15 27	✓	Follow Best Management Practices. Use a minimum of 150 litres/ha of water. Apply within 4 hours. Later applications of Gd provide more consistent results.
Tembotrione (+ Isoxadifen-ethyl)	≤1.98 g/L	Belgium	9741P/B	27	✓		
Tribenuron-methyl + Florasulam	≤0.15 g/L ≤0.03 g/L	Czechia	5473-1	2	✓		