

A. CropDefense™ Shield IN-JUG Compatibility (at provided usage rate)

Yes for 24 hours
Yes for 4 hours
No

Compatibility	Chemical Name	Manufacturer	Chemical Type	Active Ingredient	% A.I	Usage rate / minimum tank Vol.
Up to 4 hours	10_34_0	Hefty	Fertilizer	Not Provided		3 gpa in 5 gpa
Up to 4 hours	2000-01	Verdesian	Seed Treatment	Glutamate, Proline, and citric acid		1.36mL / 100lbs of seed
Up to 4 hours	2000-07	Verdesian	Seed Treatment	Glutamate, Proline, and citric acid		1.36mL / 100lbs of seed
Up to 4 hours	3_18_18	Hefty	Fertilizer	Not Provided		3 gpa in 5 gpa
Up to 4 hours	9_18_9	Hefty	Fertilizer	Not Provided		3 gpa in 5 gpa
Up to 4 hours	9_24_3	Hefty	Fertilizer	Not Provided		3 gpa in 5 gpa
Up to 4 hours	Abundit Edge Herbicide	DuPoint	Herbicide	Potassium salt of glyphosate	48.70%	64 fl oz/acre in 10 gpa
Up to 24 hours	AC-97 Micro Nexus For Row Crops 3-0-4	CH Biotech R&D Co	Fertilizer	N, K2O, micronutrients		32 fl oz/acre in 10 gpa
Up to 24 hours	AC-97 Micro Nexus For T&V 2-0-4	CH Biotech R&D Co	Fertilizer	N, K2O, S, B, Fe, Mn, Mo, Zn		32 fl oz/acre in 10 gpa
Up to 4 hours	Allegiance FL	Bayer	Fungicide	Metalaxyl	0.1%-4%	.005 gal/acre in 10 gpa
Up to 24 hours	Antler 240 EC	Winfield	Herbicide	Clethodim	28.35%	0.32 fl oz/100 lbs of seed
Up to 24 hours	Antler 360 Unpacked	Winfield	Herbicide	Clethodim	24.90%	75mL/acre 6gpa
Up to 24 hours	Arable 1	Arable	Fertilizer	Nitrogen, Phosphate, Iron, Manganese, Zinc	36.70%	75mL/acre 6gpa
No	Asana XL	Valent	Insecticide	Esfenvalerate	7%, 2%, 0.1%, 0.05%, 0.05%	64 fl oz/acre in 100 gallons
Up to 24 hours	Atrazine 4L	Loveland Products	Herbicide	Atrazine Technical	8.40%	2.9-9.6 fl oz/acre in 3-5 gpa
Up to 24 hours	BioPrep	Hefty	Water Treatment		42.60%	4 pt/acre in 5 gpa
Up to 24 hours	Black Magic 307	Gold'N Humates LLC	Micronutrients	Humic acid, Fulvic acid		2 fl oz/ 100 gallons
Up to 4 hours	Boost	Precision Laboratories	Fertilizer	Alkyl Polyethoxy Ether	10.00%	1 pint/acre
Up to 4 hours	Boost 10	Hefty	Fertilizer	4-0-0 vegetable protein hydrolysate amino acids		0.4pts/acre in 10 gpa
Up to 4 hours	Brigade 2EC	FMC Co	Insecticide	Bifenthrin	25.10%	2.1 fl oz/ acre in 10 gpa
No	Buccaneer Plus	Tenkoz	Herbicide	Isopropylamine salt of Glyphosate	41%	4 fl oz/ acre in 10 gpa
Up to 24 hours	Callisto	Syngenta	Herbicide	Mesotrione	40%	6 fl oz/acre in 10 gpa
Up to 24 hours	Crimson	Winfield	Water Treatment	Ammonium Sulfate	34%	2.5% (v/v) 6gpa
No	Durango	DOW	Herbicide	Glyphosate DMA salt	50.20%	1.5 qt/acre in 10 gpa
Up to 4 hours	Dyna-Gro	BioAgronics	Fertilizer	nitrogen, available phosphate, soluble potash, sulfur	7%, 7%, 5%, 2%	1L/acre in 10gpa
Up to 24 hours	Enlist One Herbicide	Corteva agriscience LLC	Herbicide	2,4-D choline salt	55.70%	2.0 pints/acre in 10 gpa
Up to 4 hours	Evergol Energy	Bayer	Fungicide	Trifloxystrobin, Penflufen, Metalaxyl	7.18%, 3.59%, 5.47%	1 fl oz/100 lbs of seed
Up to 4 hours	Evergol Prime	Bayer	Fungicide	Penflufen	21.43%	0.96 fl oz/100 lbs of seed
No	EverpreX	DuPoint	Herbicide	S-Metolachlor	83.70%	2.5 pt/acre in 5 gpa
Up to 24 hours	Fertigold	Mesa Verde Humates	Fertilizer	0-0-0 Fulvic acids and humic acids	60%, 45%	75 lb-150 lb/acre
Up to 24 hours	Fexapan Herbicide plus VaporGrip	Corteva agriscience LLC	Herbicide	Dicamba	42.80%	1.71 L/ha in 100 L/Ha
Up to 24 hours	Flexstar	Syngenta	Herbicide	Fomesafen Sodium Salt	22.10%	1.5 pt/acre in 15 gpa
Up to 24 hours	Flo-Rite	McGregor	Seed Polymer			0.5oz/ 100lbs soy
Up to 4 hours	Fluoxastrobin FS 480	Bayer	Fungicide	Fluoxastrobin	41.90%	5.7 fl oz/acre in 10 gpa
Up to 4 hours	Free-Flo	McGregor	Seed Polymer			3oz/ 100lbs of corn
Up to 2 hours	Fultec Adjuvant	Spraytec	Adjuvant	Carboxylic Acids, Ethylenediaminetetraacetic acid and fatty alcohol ethoxylate	11.05%	2.4oz/acre in 10gpa
Up to 24 hours	Glufosinate-Ammonium Soldado	Northern CropScience	Herbicide	glufosinate ammonium	15.00%	1.08-1.62L/acre in 10 gpa
Up to 24 hours	Glyphosate 540sL	Northern CropScience	Herbicide	Glyphosate Potassium Salt	48.70%	0.2-.94LL/acre in 10gpa
Up to 24 hours	Go-pH	Northern CropScience	Fertilizer (water condit)	Phosphoric Acid	33.00%	56 mL/acre in 10 gpa
No	Harness	Bayer	Herbicide	Acetochlor, Furlazole	75.9%, 2.5%	3 pt/acre in 10 gpa
Up to 24 hours	Histosol OP-984	Organic Products Company	Fertilizer	Mixture of bacteria in liquid media		1gal/acre
Up to 4 hours	levo	Bayer	Fungicide	Fluopyram	48.58%	3.94 fl oz/100 lbs of seed
Up to 4 hours	IMF Sativa Max	NuFarm	Fungicide	Imidacloprid, Metalaxyl, Tebuconazole, Fludioxonil	11.16%, 0.60%, 0.45%, 0.36%	5 fl oz/100lbs of seed
Up to 24 hours	Impact	AMVAC	Herbicide	Topramezone	29.70%	2.0 fl oz/acre
Up to 24 hours	Impress	McGregor	Seed Polymer			2oz/ 100lbs wheat
Up to 24 hours	Induce	Helena Chemical Company	Adjuvant	Alkyl Aryl Polyoxyalkane ethers, alkanolamides, dimethyl siloxane and free fatty acids	90.00%	
Up to 24 hours	Insist 90 Plus	Wilbur-Ellis	Adjuvant	Nonylphenol ethoxylated/ surfactant	10-20%	0.125% (v/v)
No	Interline	UPL	Herbicide	glufosinate-ammonium	24.50%	43 fl oz/acre in 10 gpa
Up to 24 hours	Journey HSOC	Winfield	Surfactant	Methylated Soybean Oil	48%-25%	0.5% (v/v) 6gpa
Up to 24 hours	K7	Kannar	Seed Treatment			1oz/ cwt seed
Up to 24 hours	Lactofen	Sharda USA LLC	Herbicide	Lactofen, solvent naphtha	24%, 50-80%	12.5-19 fl oz/acre in 10 gpa
Up to 24 hours	Laudis	Bayer	Herbicide	Tembotrione	34.50%	3 fl oz/acre in 10 gpa
Up to 4 hours	Liberty 280 SL	Bayer	Herbicide	Glufosinate ammonium, Alkylethersulfate sodium salt	24.5%, 22.1%	43 fl oz/acre in 15 gpa
Up to 24 hours	Lucento	FMC Co	Fungicide	flutriafol, bixafen	26.47%, 15.55%	3-5.5 fl oz/acre in 10 gpa
No	Malathion 8 Aquamul	Viton	Insecticide	Malathion	81.80%	1.25 pt/acre in 7 gpa
Up to 4 hours	Maxim Quattro	Syngenta	Fungicide	Azoxystrobin, Mefenoxam, Fludioxonil, Thiabendazole	1.33%, 2.65%, 3.32%, 26.50%	0.53floz/ 80,000 seeds
No	Mega Gro	Hefty	Fertilizer	Not Provided		3gpa in 5 gpa
Up to 24 hours	N-Force	Direct Enterprises	Seed Treatment	Rhizobia sp.		2 fl oz/ cwt soybean
Up to 24 hours	NuPro ST	AgNuBio	Fungicide	Chitosan	0.25%	30 mL/70 acres in 1.5 gallons
Up to 24 hours	Nutrex EDA	Sipcam Agro	Fertilizer	Zinc EDTA	5.56%	8-12 fl oz/acre
Up to 24 hours	Outlook	BASF	Herbicide	dimethenamid P	64%	21 fl oz/acre in 5 gpa
Up to 24 hours	Permeate	Winfield	Adjuvant	Diethylene Glycol	10-30%	0.125% (v/v)
Up to 24 hours	Polytex 550L	Northern CropScience	Drift Management	Oil and Emulsifier	N/A	118mL/acre in 10 gpa
Up to 4 hours	Poncho/Votivo	Bayer	Insecticide	Clothianidin	40.33%	2 fl oz/100 lbs of seed
Up to 8 hours	PrimoMaxx	Syngenta	Plant Growth Regulator	Trineaspac-ethyl	11.30%	16 fl oz/0.8 gallons water
Up to 4 hours	Proline 480 SC	Bayer	Fungicide	Prothioconazole	41.10%	0.543 fl oz/acre in 20 gpa
Up to 4 hours	Prothioconazole 480 SC	Bayer	Fungicide	Prothioconazole	41.10%	5.7 fl oz/acre
Up to 24 hours	Prowl H2O	BASF	Herbicide	Pendimethalin, Isocyanic acid polymethylenepolyphenylene ester	38.70%, 3%	3 qt/acre in 7 gpa
Up to 4 hours	Quizalofop EC	Sharda USA LLC	Herbicide	Quizalofop	10.30%	15.5 fl oz/acre in 10 gpa
Up to 4 hours	Rainier EA	Wilbur-Ellis	Surfactant	polyoxyethylene polyol fatty acid ester, butyl lactate and alcohol ethoxylate phosphate ester	98.00%	2pints/100Gal
Up to 24 hours	Rapido	Northern CropScience	Adjuvant	[[trimethylsilyl]oxy]disiloxanyl]propoxy	2.5-2.5%	56 mL/acre in 10 gpa
Up to 4 hours	Raxil 2.6F	Bayer	Fungicide	Tebuconazole	28.30%	0.74 fl oz/100lbs of seed
Up to 4 hours	Raxil Pro MD	Bayer	Fungicide	Prothioconazole, Metalaxyl, Tebuconazole	1.47%, 0.59%, 0.29%	7.5 fl oz/100lbs of seed

Also tested 6.4 fl oz/acre in 10 gpa, but lost 26% viability in 4-hours

compatible at 2L/acre in 10gpa up to 1 hour

Compatible up to 2 hrs at 2oz/acre in 5gpa. Not compatible otherwise
Higher concentration + GopH adjuvant only compatible up to 4 hours

Up to 4 hours	Redox MainstaySI	Nutrenare-Ag Inc.	Fertilizer	Calcium, calcium silicate	10%	5 gal/acre	
No	Round Up	Monsanto	Herbicide	Glyphosate			
No	RoundUp PowerMAX 3	Monsanto	Herbicide	Potassium salt of glyphosate	51%	4 fl oz/ acre in 10 gpa	
Up to 24 hours	Salto	Syngenta	Fungicide	Pydiflumetofen	41.70%	1.52oz/cwt	
No	Silencer	Adama Essentials	Insecticide	Lambda Cyhalothrin	12.70%	3.84 fl oz/acre in 7 gpa	
Up to 24 hours	Sivanto	Bayer	Insecticide	Flupyradifurone	17%	14 fl oz/acre in 7 gpa	
Up to 24 hours	Source Corn	Sound Agriculture	Fertilizer	Maltol Lactone	20.50%	0.7 fl oz/acre in 10 gpa	
Up to 24 hours	Status	BASF	Herbicide	3-Pyridinecarboxylic acid, 2-monosodium salt, sodium salt of dicamba	17.1%, 44%	10 fl oz/acre in 3 gpa	
No	Steward	FMC Co	Insecticide	Indoxacarb	15.84%	11.3 fl oz/acre in 7 gpa	
Up to 4 hours	Stim-Gro	BioAgtronics	Seed Treatment	-	-	1.25oz in 10oz water	1.25oz Stim-Gro in 1.25 oz water is NOT compatible with Shield
Up to 24 hours	Stinger	DOW	Herbicide	Clopyralid monoethanolamine salt	40.90%	18.1/3 pt/acre in 10 gpa	
Up to 24 hours	SumaGrow	Bio Soil Enhancers LLC	Biological	Humic Acid, Beneficial Microbes	12%	1 gal/acre 1:20	
Up to 24 hours	SureFire	Partner's Brand	Herbicide	Paraquat Dichloride, Diuron	29.48%, 10.68%	5oz/cwt	
Up to 24 hours	TapOut	Helena Chemical Company	Herbicide	Clethodim	13%	10 fl oz/acre in 10 gpa	
Up to 4 hours	Thiram 42-S	Bayer	Fungicide	Thiram	42.00%	5 fl oz/100 lbs of seed	
Up to 24 hours	Topguard	FMC Co	Fungicide	Flutriafol	11.60%	14 fl oz/acre in 5 gpa	
Up to 24 hours	UltraBlazer	UPL	Herbicide	Acifluorfen sodium salt	20.10%	1.5 pt/acre in 10 gpa	
Up to 4 hours	Vortex	Bayer	Fungicide	Iaconazole	40.70%	0.045 fl oz/100lbs of seed	
Up to 4 hours	WakeUp Spring	Renewable Farming LLC	Fertilizer	3.5-0-0 (Sodium, Sulfur, Zinc, Magnesium)	0.3%, 0.8%, 0.5%, 0.1%	1:256, in 2 gallons	
Up to 24 hours	Warrant	Bayer	Herbicide	Acetochlor	33%	3 qts/acre in 10 gpa	
Up to 24 hours	Water-Rite	Hefty	Water Treatment			8 fl oz/ 100 gallons water	
Up to 4 hours	Willowood Clethodim 2EC	Generic Crop Science	Herbicide	clethodim	70-80%	16 fl oz/acre in 5 gpa	
Up to 4 hours	X-99 NIS 80	Heartland Ag	Adjuvant	N/A	100%	0.125% (v/v)	
Up to 24 hours	Xyway LFR	FMC Co	Fungicide	flutriafol	20.90%	15.2 fl oz/acre	
Up to 24 hours	Zidua SC	BASF	Herbicide	Pyroxasulfone	41.47%	6.5 fl oz/acre in 3 gpa	
No	Zinc Ammoniate	Hefty	Fertilizer	Zinc EDTA sodium Salt		1 qt/ 5 gallons	
No	Zinc Chelate	Hefty	Fertilizer	Zinc Ammonium Complex, ammonium hydroxide	35-50%, 1-5%	1 qt/ 5 gallons	
No	Zinc Citrate	Hefty	Fertilizer	Zinc Ammonium Complex, ammonium hydroxide	43-58%, 0-5%	1 qt/ 5 gallons	
Up to 4 hours	Zinc Sulfate	Hefty	Fertilizer			1 lb/5 gallons	

B. CropDefense™ Boost ON-SEED Compatibility (USE SEED TREATMENT SLURRY WITHIN 2 HOURS OF MIXING)

COMMERCIAL NAME	TYPE	CHEMICAL	% A.I	CHEMICAL	% A.I.	CHEMICAL	% A.I	CHEMICAL	% A.I	
Thiram 42S	Fungicide	Thiram	42%							
IMF Sativa Max	Fungicide/ Insecticide	Tebuconazole	0.45%	Metalaxyl	0.60%	Fludioxonil	0.36%	Imidicloprid	11.16%	
Dynashield	Fungicide	Tebuconazole	0.94%							
Raxil 2.6F	Fungicide	Tebuconazole	28.30%							
Dividend Extreme	Fungicide	Difenoconazole		7.73% Mefenoxam	1.93%					
Raxil PRO MD	Fungicide	Prothioconazole		1.47% Tebuconazole	0.29%	Metalaxyl	0.59%			
Vortex 450FL	Fungicide	Iaconazole		40.70%						
Acceleron DX-709	Fungicide	Trifloxystrobin		22%						
Acceleron IDL-810	Fungicide/ Insecticide	Difenoconazole		1.25% Mefenoxam	0.40%	Fludioxonil	0.13%	Thiamethoxam	20.70%	
Proline 480 SC	Fungicide	Prothioconazole		41%						
Dynasty	Fungicide	Azoxystrobin		9.60%						
Vibrance	Fungicide	Sedaxane		43.70%						
Eagle 20EW	Fungicide	Myclobutanil		19.70%						
Evergol Energy	Fungicide	Prothioconazole		7.18%	Penflufen	3.59%	Metalaxyl	5.74%		
Maxim Quattro	Fungicide	Thiabendazole		26.50%	Fludioxonil	3.32%	Mefenoxam	2.65%	Azoxystrobin	1.33%
Tachigan 70 WP	Fungicide	Hymexazole		70%						