OxiDate® 5.0

Tank-Mix and Product Compatibility Guide



Sprayer Guidelines

OxiDate 5.0 is a strong oxidizing agent with a low pH (<1.5) that reacts negatively with pesticides/fertilizers that have a metal ion in their formulation. It is important to thoroughly rinse out spray tanks prior to using OxiDate 5.0 to prevent any reaction with residues in the tank.

Tank-Mixing Instructions

- 1. Fill the tank ½ full of the required water volume.
- 2. Start agitation when the tank is ½ full before adding OxiDate 5.0 and continue agitation through the entire mixing process.
- 3. Add the needed amount (recommended % v/v) of OxiDate 5.0 for total tank-mix volume.
- 4. Add additional water to bring the tank to ¾ full of the total desired solution volume.
- 5. Add any compatibility agents and anti-foamers, as necessary.
- 6. Begin adding the remaining needed compatible pesticides to the tank in the following order based on formulation type: water-soluble packets (WSP); dry formulations (DF, WDG, WG, WP, SG), dry or solid anti-drift agents; dispersed liquid formulations (SC, F, FL, SE, EW, CS), liquid drift retardants; remaining liquid formulations (EC, OD, S, SL), then add any additional necessary adjuvants and compatible fertilizers last.
- 7. Be sure to wait 3-5 minutes before adding each formulation type to ensure proper mixing.
- 8. Add the remaining water needed to fill the tank to the total desired solution volume.

Tank-Mixing Notes

- 1. Wait at least 48-72 hours after a metal-based foliar application has been made before applying OxiDate 5.0. It is recommended that no more than 2–3 additional products are added to a tank-mix solution for ground applications and only 1–2 additional products in low water volume for aerial or electrostatic applications.
- 2. Metal-based pesticides/fertilizers can be applied following an application of OxiDate 5.0 once the leaf surface has fully dried.
- 3. Do not tank-mix with biological-based biopesticides such as, Gliocladium species, Beauveria species, and Bt species.
- 4. Coverage is critical, so it is recommended to use appropriate nozzles and solution volume (GPA) based on crop and canopy density. For best performance, thoroughly apply solution to ensure full coverage of plant tissue. The use of a non-ionic surfactant is recommended to improve results. Do not use any surfactant/adjuvant, other than non-ionic surfactants, without consulting the OxiDate 5.0 Compatibility Guide or contacting BioSafe Systems.

Caution: Never add OxiDate 5.0 to a super concentrated solution containing other pesticides. OxiDate 5.0 must be 80% diluted prior to adding any other pesticides to the tank-mix, especially in low water volume mixtures like aerial applications.

Actigard 50WG Coxystrobin Quadris, Abound Coxystrobin + difenconazole Coxystrobin + propiconazole Avaris, Avaris 2XS Avaris 2XS Coxystrobin + propiconazole Avaris, Avaris 2XS Coxystrobin + propiconazole Coxy	Fungicides & Bactericides			
coxystrobin Quadris, Abound coxystrobin + difenconazole	Active Ingredient	Brand Name(s)	Compatibility	Notes
coxystrobin + difenconazole	Acibenzolar-S-methyl	Actigard 50WG	•	
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	Mandipropamid	Revus	•	
etconazole Caramba, Quash	Mefenoxam	Ridomil Gold SL, Ultra Flourish	•	Need to spray solution within 4-6 hrs.
	Metconazole	Caramba, Quash	•	

Fungicides & Bactericides				
Active Ingredient	Brand Name(s)	Compatibility	Notes	
Myclobutanil	Rally, Sonoma	•		
Oxathiapiprolin + mandipropamid	Orondis Ultra	•		
Paraffinic oil	JMS Stylet Oil	•	Do not exceed 0.5% v/v (1:200) rate of OxiDate 5.0.	
Salts of phosphorus acid	OxiPhos, Kphite, Phostrol			
Potassium phosphite + tebuconazole	Viathon	•		
Picoxystrobin	Aproach	•		
Propamocarb hydrochloride	Previcur FLEX	•		
Propiconazole	Tilt, Bumper, Banner, Quilt, Trivapro, Stratego	•		
Prothioconazole	Proline, Propulse, Prosaro, Delaro	•		
Prothioconazole + trifloxystrobin	Stratego YLD	•		
Pydiflumetofen + azoxystrobin + propiconazole	Miravis Neo	•	Need to spray solution within 4-6 hrs.	
Pyraclostrobin + metconazole	Headline Amp	•		
Pyrimethanil	Scala	•		
Pyrimethanil + fluopyram	Luna Tranquility	•		
Quinoxyfen	Quintec	•		
Sulfur	Microthiol Disperss	•	Do not exceed 0.5% v/v (1:200) rate of OxiDate 5.0	
Sulfur, dusting	Misc. brands	××	Apply OxiDate 5.0 before or 72 hours after dusting sulfur application	
Tebuconazole	Velum, Folicur	•		
Tebuconazole + fluopyram	Luna Experence	•		
Tetraconazole	Domark, Eminent, Minerva, Priaxor	•		
Thiophanate-methyl	Incognito, Topsin	•		
Thiram	Thiram SC	•	Need to spray solution within 4-6 hrs.	
Triphenyltin hydroxide	Super Tin, Agri Tin	•		
Trifloxystrobin	Flint, Gem, Stratego	•		
Triflumizole	Procure, Trionic	•		
Triticonazole	Trinity	•		

Active Ingredient	Brand Name(s)	Compatibility	Notes
Copper octanoate	Cueva	•	Do not exceed 0.5% v/v (1:200) rate of OxiDate 5.0. Spray the mixture within an hour after mixing.
Copper sulfate pentahydrate	Maga-Bon CS 2005	•	Do not exceed 0.5% v/v (1:200) rate of OxiDate 5.0. Spray the mixture within an hour after mixing.
Cuprous oxide	Nordox 30-30, Nordox 75 WG	×	Wait 48-72 hours after copper application before applying OxiDate 5.0
Copper hydroxide	Nu-Cop 50 WP	×	Wait 48-72 hours after copper application before applying OxiDate 5.0
Copper hydroxide	Champ DP, ChamplON++, Kocide 3000-O	×	
Copper hydroxide + copper oxychloride	Badge SC, Badge X2	×	Wait 48-72 hours after copper application before applying OxiDate 5.0
Copper Sulfate	Agri Star Basic Copper 53, Cuprofix Ultra	×	Wait 48-72 hours after copper application before applying OxiDate 5.0
Biologi	cal and Biorational F	ungicides &	Bactericides
<i>Bacillus</i> species	DoubleNickel, Triathlon, Cease, Rhapsody, Companion, Serenade, Sonata	•	Compatible for foliar sprays but not for soil applications
Bacillus Mycoides isolate J (BmJ)	LifeGard WG	?	Jar test and phytotoxicity evalution recommended
Banda de Lupinus albus doce (BLAD)	ProBlad Verde	•	
Garlic + cinnamon oil	Gargoil	•	Do not exceed 0.5% v/v (1:200) rate of OxiDate 5.0. Recommended phytotoxicity tes for sensitive plants before widespread use.
Gliocladium species	Prestop, SoilGard	×	
Lime sulfur	Multiple brands	×	
Oxytetracycline	MycoShield, Fireline	•	Continuous agitation; need to spray within 4-6 hrs.
Paraffinic oil	JMS Stylet Oil	•	Do not exceed 0.5% v/v (1:200) rate of OxiDate 5.0.
Potassium bicarbonate	Kaligreen, Carb-O-Nator	×	
Potassium silicate	Sil-Matrix		
Polyoxin D zinc salt	Oso, Ph-D	•	
Pseudomonas chlororaphis	Howler	•	
Reynoutria sachalinenis	Regalia	•	
Streptomycin / streptomyces	AgriMycin, Harbour, Firewall, Actinovate, MycoStop	•	
Sodium carbonate peroxyhydrate	PerCarb	×	
Tea tree oil	Timorex Gold	•	Do not exceed 0.5% v/v (1:200) rate of OxiDate 5.0. Spray solution within 4-6 hrs.
Thyme oil	Guarda	•	Other thyme oil products have not been evaluted

Insecticides & Miticides				
Active Ingredient	Brand Name(s)	Compatibility	Notes	
Abamectin	Abacus, Abamex, Agri-Mek SC	•		
Abamectin + cyantraniliprole	MinectoPro	•		
Acephate	Orthene97, Acephate 90	•		
Acetamiprid	Assail 30SG	•		
Beta-Cyfluthrin	Baythroid XL			
Bifenazate	Floramite SC	×		
Bifenthrin	Athena, Brigade, Hero	•		
Carbaryl	Carbaryl 4L, Sevin XLR Plus	•		
Chlorantraniliprole	Altacor, Coragen	•		
Cyclaniliprole	Harvanta 50 SL	•	Need to spray solution within 4-6 hrs.	
Diflubenzuron	Cavalier, Dimilin, Micromite 2L	•		
Dimethoate	Dimethoate LV-4	•	Need to spray solution within 4-6 hrs.	
Dinotefuran	Venom	•		
Emamectin benzoate	Proclaim	•		
Esfenvalerate	Asana XL	?	Jar test and phytotoxicity evaluation recommended	
Flupyradifurone	Sivanto			
Horticultural oils	Dormant Oil 435	•	Do not exceed 0.5% v/v (1:200) rate of OxiDate 5.0 when mixing with oils	
lmidacloprid	Admire, Merit	•		
Indoxacarb	Avaunt eVo, Steward EC	•	Need to spray solution within 4-6 hrs.	
Lambda-cyhalothrin	Warrior II, Silencer, Lambda T-2	•	Need to spray solution within 4-6 hrs.	
Malathion	Malathion 57EC, Fyfanon ULV AG	•		
Methomyl	Lannate LV	•		
Methoxyfenozide	Intrepid 2F			
Spiromesifen	Oberon 2 SC			
Spirotetramat	Movento	•		
Thiamethoxam	Actara	•		
Tolfenpyrad	Apta	•		
Zeta-cypermethrin	Mustang	•		

Biolo	gical and Biorational	Insecticides	& Miticides
Active Ingredient	Brand Name(s)	Compatibility	Notes
Azadirachtin	AzaGuard , Aza-Direct, Neemix 4.5	•	
Azadirachtin/pyrethins	Azera		
Bacillus thuringiensis species	BT NOW, Agree, Javelin, Dipel, XenTari	×	
Beauveria bassiana	BioCeres WP , BotaniGard, BoteGHA ES	×	
Burkholderia species	Venerate	×	
Chromobacterium subtsugae	Grandevo	×	
Geraniol/peppermint oil/rosemary oil	Ecotec Plus	•	Do not exceed 0.5% v/v (1:200) rate of OxiDate 5.0.
Isaria fumosorosea	PFR-97	×	
Metarhizium anisopliae	Met 52 EC	×	
Mineral oil	TriTek, Sol-oil 97, BioCover MLT, PureSpray Green	•	Do not exceed 0.5% v/v (1:200) rate of OxiDate 5.0.
Neem oil	Triology, Triact 70	•	Do not exceed 0.5% v/v (1:200) rate of OxiDate 5.0.
Paraffinic oil	JMS Stylet Oil	•	Do not exceed 0.5% v/v (1:200) rate of OxiDate 5.0.
Potassium salts of fatty acids	Des-X, M-Pede	×	
Pyrethrins	Pyganic EC	•	
Spinetoram	Radiant SC	•	
Spinosad	Entrust	•	
Sulfur	Microthiol Dispress, Crusade DF, Kumulus DF	•	Do not exceed 0.5% v/v (1:200) rate of OxiDate 5.0.
Sulfur, dusting	Misc. brands	×	Apply OxiDate 5.0 before or 72 hours after dusting sulfur application
Virus based	AgriPhage, CYD-X HP, GemStar, Madex HP, Virosoft CP4	×	
	Adjuva	ants	
Alkyl aryl polyoxylkane ethers, alkanolamides, dimethyl siloxane, free fatty acids	Induce	•	
Alkyl phenol ethoxylate	Activator 90		
Alcohol ethoxylate	Wetcit, Oroboost, Vintre		
Ammonium polyacrylates, hydroxy carboxylates and sulphates	Request	•	

Adjuvants			
Active Ingredient	Brand Name(s)	Compatibility	Notes
Cationic siloxane polymer	Aqua-Sil		
Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil, and soybean oil, ethoxylated		•	
Non-Ionic surfactants	Attach, Dyne-Amic, LI-700, Liberate, Leaf Life Widespread Organic, Induce	•	
Spreader/stickers	Cohere		
Oil based surfactant	Cide Winder	•	Do not exceed 0.5% v/v (1:200) rate of OxiDate 5.0.
Organosilicone	Kinetic, Silwet L-77, Widespread Max, Tactic	•	
Polymers	Argosy RF, AquaBoost AG 30- NWS	•	
Polyether modified heptamthyltrisloxane	Stik-Kote	•	
Yucca (Saponin)	Yucca Agaide, ThermX-70		
	Plant Growth Regi	ulators (PGI	Rs)
Indolebutyric acid + cytokinin as kinetin	Radiate	•	
Gibberellic acid	ProGibb LV Plus		
	Biostimulants ar	nd Fertilizer	S
AGRO-MOS Copper	•		
Black Label 6-22-0	•		
Black Label Zn (6-20-0 + 0.77Zn)	×		
Calcium nitrate	•		
Calcium sulfate	×		
Calcium metalosate (CML)	•		
CalOx FT	•		
Keyplex 120	•		
Potassium acetate (K-ACE 29)	•	Needs to be spr	ayed within 4 hrs.
Kamin	•		
LOKOMOTIVE (2-0-25)	×		
Maritime (sea kelp)	×		
Miller Nutrileaf 20-20-20	•	Medium to high within 4 hrs.	rates of fertilizer require solution to be sprayed
Mg sulfate 9.8%			
Mn sulfate 32%	•	Needs to be spr	ayed within 4 hrs.

Biostimulants and Fertilizers			
Active Ingredient/Brand Name	Compatibility	Notes	
Nutrient Express 11-41-8 + kelp	×		
NutriSync	•		
NutriSync 3D	×		
Parka	•		
UAN (28-32)-0-0	•		
Urea	•		
Zn Sulfate 35.5%	•		

OxiDate 5.0 has been shown to be tank-mix compatible with the following elemental materials; N,P,K, Ca, & B. When tank-mixing with unknown nutritional based products, it is recommended to conduct jar test for compatibility, plus a phytoxicity evaluation on a small number of plants before wide spread use. Ask your local BioSafe Systems representative for further guidance on specific tank mixes with nutritional elements not listed.

Herbicides Herbicides				
Active Ingredient	Brand Name(s)	Compatibility	Notes	
Dicamba	Engenia	•		
2,4-dichlorophenoxyacetic acid, butoxyethyl ester + triclopyr BEE: 3,5,6-trichloro-2-pyridinyloxyacetic acid, butoxyethyl ester	Crossbow	•		
2,4-D, choline salt	Enlist One	•		
Cloransulam-methyl	First Rate	•		
Clopyralid	Spur	•		
Fomesafen	Sinister	•	Needs to be spray within 4hrs	
Sodium salt of acifluorfen	Ulta Blazer	•		
2-Ethylhexyl ester of 2, 4-Dichlorophenoxyacetic acid	Barrage HF	•		
Lactofen	Cobra	•	Needs to be spray within 4hrs	
Caprylic acid + capric acid	Homeplate	•		
Pelargonic acid	Scythe	•		
Atrazine	Atrazine	•	Needs to be spray within 4hrs	
Indaziflam	Alion	•		
Saflufenacil	Treevix	•		

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