

BiOWiSH® Crop Liquid Compatibility

Material Compatibility

This technical bulletin summarizes the compatibility of BiOWiSH® Crop Liquid with a number of carriers, fertilizers, additives, and excipients. For material compatibilities not listed here or in other technical bulletins, please contact BiOWiSH Technologies at agronomy@biowishtech.com. Technical bulletins are available at biowishtech.com/resources. A jar test is recommended to test for physical compatibility. Always read and follow label directions of tank mix products.

GRANULAR CARRIER PARTICLES

BiOWiSH® Crop Liquid Granular Carrier Particle Compatibility Table		
Material	Compatible	Shelf Life of Coated Carrier
Ammonium Sulfate	Yes	1 year
Ammonium Nitrate	Yes	1 year
Amorphous Silica	Yes	4 months
Biosolids - Animal and Municipal	Yes	1 year
Calcium Ammonium Nitrate Solid	Yes	1 year
Calcium Sulfate (Gypsum)	Yes	1 year
Compound NPK	Yes	1 year
Controlled Release Nitrogen (CRN)*	Yes	6 months
Diammonium Phosphate (DAP)	Yes	1 year
Diatomaceous Earth	Yes	1 year
Dolomite	Yes	1 year
Kaolin	Yes	1 year
Magnesium Sulfate	Yes	75 days
Monoammonium Phosphate (MAP)	Yes	1 year
Muriate of Potash (MOP)	Yes	1 year
NPK blends	Yes	1 year
Potassium Chloride (KCl)	Yes	1 year
Potassium Nitrate	Yes	1 year
Potassium Thiosulfate (KTS)	Yes	1 year
Red Potash	Yes	1 year
Sodium Sulfate	Yes	1 year
Sulfate of Potash (SOP)	Yes	1 year
Single Superphosphate	Yes	1 month
Triple Superphosphate and Double Superphosphate	Yes	1 month
Urea	Yes	1 year
Urea coated with NBPT	Yes	1 year
White Potash	Yes	6 months

*NOTE: Please contact your BiOWiSH representative for specific CRN product compatibility information.

Solid fertilizers coated with BiOWiSH® Crop Liquid have the potential to achieve a shelf life that exceeds our Technical Bulletin statements. The potential for extended shelf life may be achieved when coated properly, packaged in a suitable bag and stored as directed, and provided that the uncoated fertilizer's physical integrity specifications allow. The stability of BiOWiSH® coated fertilizers stored and handled in unpackaged bulk volumes varies by climate and operational practices.



TANK MIXES

BiOWiSH® Crop Liquid Tank Mix Compatibility Table		
Material	Compatible	Shelf Life of Tank Mix
Liquid Fertilizers		
0-0-15	Yes	1 year
0-0-21	Yes	1 year
10-34-0	Yes	9 months
28-0-0 (UAN)	Yes	1 year
32-0-0 (UAN)	Yes	1 year
46-0-0	Yes	6 months
Calcium Ammonium Nitrate	Yes	1 year
Ethanol Derived Fertilizers	Yes	1 month
Humic and Fulvic Acid Products	Yes	1 year
Herbicides		
2,4-D	Yes	14 days
Atrazine	Yes	14 days
Glufosinate Ammonium	Yes	14 days
Glyphosate	Yes	14 days
Paraquat	Yes	14 days

DRYING AGENT POWDER MATERIAL

BiOWiSH® Crop Liquid Drying Agent Compatibility Table		
Drying Agent Material	Soluble Y/N	Shelf Life of Drying Agent
Ammonium Sulfate	Yes	1 year
Calcium Sulfate (Gypsum)	No	1 year
Diatomaceous Earth	No	1 year
Dolomite	No	1 year
Kaolin Clay	No	1 year
Magnesium Silicate (Talcum Powder)	No	6 months
Magnesium Sulfate	Yes	1 year
Potassium Sulfate	Yes	6 months
Sodium Sulfate	Yes	6 months

The table above represents drying agents that were added to fertilizers coated with BiOWiSH® Crop Liquid. The drying agents themselves were not coated. In addition, this list of compatible drying agents are all powder reagents, and therefore, shelf life periods may vary from granular materials that were coated by BiOWiSH® Crop Liquid for use as a filler material in fertilizer blends.

Technical Support

Please contact a distributor near you, email agronomy@biowishtech.com, or visit our website at biowishtech.com for technical support. The addition of BiOWiSH® does not require a drying agent nor replace a drying agent if currently being used in the production process. If a drying agent is being used in a large-scale production process, apply BiOWiSH® prior to adding drying agents. BiOWiSH® product compatibility is based on common industry management practices. All risks shall be assumed by buyer and user.