

BiOWiSH® Liquid Fertilizer Enhancements

Material Compatibility

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

*NOTE: BiOWiSH® Liquid Fertilizer Enhancements are compatible with select crystalline, prill, and other non-granular fertilizers. Please contact your BiOWiSH representative for specific CRN product compatibility information.

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

*NOTE: When mixing with liquid fertilizers or other tank mix products, add the recommended amount of BiOWiSH® Liquid Fertilizer Enhancements followed by all other tank mix products. Follow label directions of tank mix products. A jar test is recommended to test for compatibility.

DRYING AGENT POWDER MATERIAL

BiOWiSH® Liquid Fertilizer Enhancements: 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® Liquid Fertilizer Enhancements. 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® Liquid Fertilizer Enhancements 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.