

InnoSolve™

InnoSolve products are proven products with years of research, data, and results. Through the InnoSolve product line, Innovar is dedicated to bringing value-added, flexible technologies to global nutrient markets.



InnoSolve™ PKMe

Guaranteed Analysis:

Copoly-[(3-carboxypropionamide)
(2-(carboxymethyl acetamide))}..... 47.5%
as potassium salt
Inert Ingredients52.5%

Use Rate:

1-4 qts/acre (2.33-9.33 L/hectare)

Weight:

10.7 lbs/gal (1.28 kg/L)

InnoSolve PKMe is a proprietary nutrient enhancer that keeps nutrients available for plant uptake. Through its high molecular weight (~5000 g/mol), and high cation exchange capacity (~750 mill equivalent), InnoSolve PKMe persists in the soil and directly complexes positively charged nutrients in the soil, keeping them in solution, and preventing their precipitation with negatively charged nutrients (like phosphorus). This increases the uptake of both positively- and negatively-charged nutrients in the soil. InnoSolve PKMe is fully biodegradable and is nontoxic to humans and animals.



InnoSolve™ Inhibitor COMBO

Guaranteed Analysis:

N-(n-butyl)thiophosphoric thiamide
(NBPT) (CAS No. 94317-64-3).....26.7%
Dicyandiamide (DCD)
(CAS No. 461-58-5).....20.0%
Inactive Ingredients 53.3%

Use Rate:

2-4 qts per ton (2-4 L/metric ton);

Weight:

9.7 lbs/gal (1.17 kg/L)

InnoSolve Inhibitor COMBO protects nitrogen above and below ground via a combination of a urease and nitrification inhibitor. This reduces urea hydrolysis, ammonia volatilization, denitrification, and leaching of the nitrogen—allowing more of the nitrogen to enter the plant. Designed to be blended onto granular fertilizer, InnoSolve Inhibitor COMBO provides maximum coating and penetration of each individual granule through a proprietary solvent system. Backed by years of research, InnoSolve Inhibitor COMBO offers the best value and performance on the market.



InnoSolve™ Bio

Guaranteed Analysis:

Sulfur (S).....17.0%
17.0% Combined Sulfur (S)

Derived from: Dimethyl sulfoxide

Use Rate:

4-8 oz/acre (300-600 mL/hectare)

Weight:

10.1 lbs/gal (1.21 kg/L)

InnoSolve Bio is sulfur-based nutrient designed to improve nutrient conditions for better overall plant yield. Sulfur is a constituent of two amino acids: cysteine and methionine—both of which are important to plant immune responses. It is also a constituent of several enzymes, including ferredoxin (assists in building chlorophyll and assimilating nitrogen), biotin (assists in the synthesis of fatty acids, amino acids, and the generation of glucose), and thiamine (breaks down sugars of amino acids). It is also a component of sulfolipids (which are specific plant membranes). Designed to be used at transplant, and at crucial times throughout the plant's development, InnoSolve Bio will optimize plant growth, resulting in an increase in yield.



InnoSolve™ BMZ

Guaranteed Analysis:

Boron (B)4.7%
Manganese (Mn)..... 8.0%
Zinc (Zn)16.0%

Derived from: Boric acid, manganese sulfate, zinc sulfate

Use Rate:

5-10 lbs per ton (2-5 kg/metric ton)

Bulk Density:

50 lbs/ft³ (800 kg/m³)

InnoSolve BMZ is a proprietary blend of micronized boron, manganese, and zinc that is designed specifically to be used with InnoSolve PKMe, InnoSolve Bio, and/or InnoSolve Inhibitor COMBO. Boron provides structural linkages within cell walls, and also forms complexes with phenolic compounds, which provides cell membrane protection by preventing the formation of damaging quinones and reactive oxygen species that arise when phenolics are oxidized. Manganese is present in several enzymes, many of which are involved in carbon and nitrogen metabolism. Manganese is also a constituent of the thylakoid membranes inside chloroplasts. Zinc is also present in many different enzymes. These enzymes are responsible for RNA production, rooting hormone production, plant defense, and chlorophyll production. Many soils are deficient in these important micronutrients. Because of this InnoSolve BMZ will improve soil conditions for root growth and overall plant growth. And because of its water-soluble properties, and ability to cross-link with other InnoSolve products, InnoSolve BMZ is highly available to plants, and provides a flexible way to provide micronutrients to granular fertilizers treated with other InnoSolve technologies.



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