

# IN-FIELD FERTILIZER COMPATIBILITY

## For Nutrient-Based Materials

### MIX RESULTS BASED ON:

- Low to moderate agitation
- 50-50 ratio; no dilution
- Flexible mix order
- 40 - 110°F
- Standard P.P.E. & safety procedures
- Poly tanks & hoses

	Aqua Ammonia ; 20-0-0	Urea Solution ; 23-0-0	Ammonium Nitrate Solution ; 20-0-0	Urea Ammonium Nitrate Solution ; 28/32-0-0	Ammonium Polyphosphate solution ; 10-34-0	Ammonium Thiosulfate Solution ; ATS 12-0-0-26S	Potassium Thiosulfate Solution ; KTS 0-0-25-17S	Calcium Thiosulfate ; CaTS 6% Ca 10 % S	Magnesium Thiosulfate ; MgTS 10%S 4% Mg	Calcium-Ammonium Nitrate solution ; 17-0-0 8.8 Ca	Calcium Nitrate solution ; 8-0-0 11Ca	Potassium Carbonate solution ; 0-0-30	Urea Sulfuric Acid 15/49 ; 15-0-0-16S	Water	Phosphoric Acid (White)	Phosphoric Acid (Green)	Zinc Sulfate	Calcium Sulfate	Ammonium Orthophosphoric Acid + KOH	Ammoniated Zinc	Dipotassium Phosphate ; DKP	Monopotassium Phosphate ; MKP	Magnesium Sulfate	Copper Sulfate	Potassium Nitrate	Potassium Chloride
Aqua Ammonia ; 20-0-0	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Urea Solution ; 23-0-0	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Ammonium Nitrate Solution ; 20-0-0	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Urea Ammonium Nitrate Solution ; 28/32-0-0	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Ammonium Polyphosphate solution ; 10-34-0	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Ammonium Thiosulfate Solution ; ATS 12-0-0-26S	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Potassium Thiosulfate Solution ; KTS 0-0-25-17S	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Calcium Thiosulfate ; CaTS 6% Ca 10 % S	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Magnesium Thiosulfate ; MgTS 10%S 4% Mg	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Calcium-Ammonium Nitrate solution ; 17-0-0 8.8 Ca	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Calcium Nitrate solution ; 8-0-0 11Ca	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Potassium Carbonate solution ; 0-0-30	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Urea Sulfuric Acid 15/49 ; 15-0-0-16S	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Water	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Phosphoric Acid (White)	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Phosphoric Acid (Green)	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Zinc Sulfate	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Calcium Sulfate	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Ammonium Orthophosphoric Acid + KOH	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Ammoniated Zinc	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Dipotassium Phosphate ; DKP	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Monopotassium Phosphate ; MKP	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Magnesium Sulfate	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Copper Sulfate	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Potassium Nitrate	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Potassium Chloride	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear

**Clear, safe mix** in typical in-field mixing conditions  
*No residue/fallout, plugging hazard, or worker safety hazards; retains plant-available-form of nutrients*

**Not advised** in typical in-field mixing conditions  
*May be done successfully with additional procedures (see numbered key & consult with agronomist)*

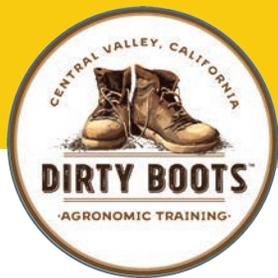
**1** Dilution with water required  
**2** Specific mix ratios required

**Not advised** in typical in-field mixing conditions  
*May result in residue/fallout, plugging hazard, worker safety hazards or material loss*

**Unknown results** in typical in-field mixing conditions

**Worker safety hazards present**  
**Follow necessary safety procedures**  
**Unsafe to mix in-field**

This guide is based on a 50-50 ratio, no dilution, unspecified mix order, and typical in-field mixing conditions for the Central Valley including low/inrequent agitation, temps 40-110°F and standard safety procedures. These guidelines do not apply for mixes done in facilities with special tools/equipment for pH control, agitation, measuring, safety, etc. **Always read and follow handling instructions on product packaging.**



# IN-FIELD FERTILIZER COMPATIBILITY

## For Non-Nutrient Based Materials

### MIX RESULTS BASED ON:

- Low to moderate agitation
- 50-50 ratio; no dilution
- Flexible mix order
- 40 - 110°F
- Standard PPE & safety procedures
- Poly tanks, pump(?)
- Apply within 48 hours

- Clear, safe mix or intentional suspension** in typical in-field mixing conditions  
*Minimal residue/particulate, no worker safety hazards, retains plant-available-form of nutrients*
- Not advised** in typical in-field mixing conditions  
*May be done successfully with additional procedures (see numbered key & consult with agronomist)*
  - 1 Dilution with water required**
  - 2 Specific mix ratios required**
- Not advised** in typical in-field mixing conditions  
*May result in excessive residue/particulate, plugging hazard, worker safety hazards or material loss*
- May affect living organisms; consider pH, dilution and application window

	Aqua Ammonia	10-34-0	UAN-32	KTS	CAN-17	0-52-0	0-55-0	US-15/49	Water	Molasses	Food Waste Based Fertilizers	Fish Based Fertilizers	Citric Acid Solution	Lactic Acid Solution	Ascophyllum Nodosum	Ecklonia Maxima	Fulvic Acids	Humic Acids (near neutral-acidic)	Humic Acids - (alkaline)
Molasses				1,2															
*Food Waste (Hydrolosate/fermented/digested)																			
*Fish Based Fertilizers				1,2															
Citric Acid Solution				1,2															
Lactic Acid Solution				1,2															
Ascophyllum Nodosum	1,2										1,2								
Ecklonia Maxima																			
Fulvic Acids	1,2																		
*Humic Acids (near neutral-acidic)																			
*Humic Acids (alkaline)	1,2									1,2			1,2				1,2		

This guide is based on a 50-50 ratio, no dilution, unspecified mix order, and typical in-field mixing conditions for the Central Valley including low/infrequent agitation, temps 40-110°F and standard safety procedures. These guidelines do not apply for mixes done in facilities with special tools/equipment for pH control, agitation, safety, etc.

**As these mixes may contain living organisms and/or result in intentional suspensions, it is assumed that standard mixing procedure also includes application within 48 hours and sufficient agitation prior to application. This especially applies to high-oil food and fish materials.** Always read and follow handling instructions on product packaging.

\* Materials vary greatly in purity/quality which may affect mix properties. Always do a jar test and keep an eye on quality control.