



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																										
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Water																										
Phosphoric Acid (White)																										
Phosphoric Acid (Green)																										
Zinc Sulfate																										
Calcium Sulfate (Gypsum)																										
Ammonium Orthophosphoric Acid + KOH (3-18-18)																										
Ammoniated Zinc																										
Dipotassium Phosphate ; DKP																										
Monopotassium Phosphate ; MKP																										
Magnesium Sulfate																										
Copper Sulfate																										
Potassium Nitrate																										
Potassium Chloride																										

- 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/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, 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																		
Ecklonia Maxima																			
Fulvic Acids	1,2																		
*Humic Acids (near neutral-acidic)																			
*Humic Acids (alkaline)	1,2																		

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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.