


UAN-Mate®

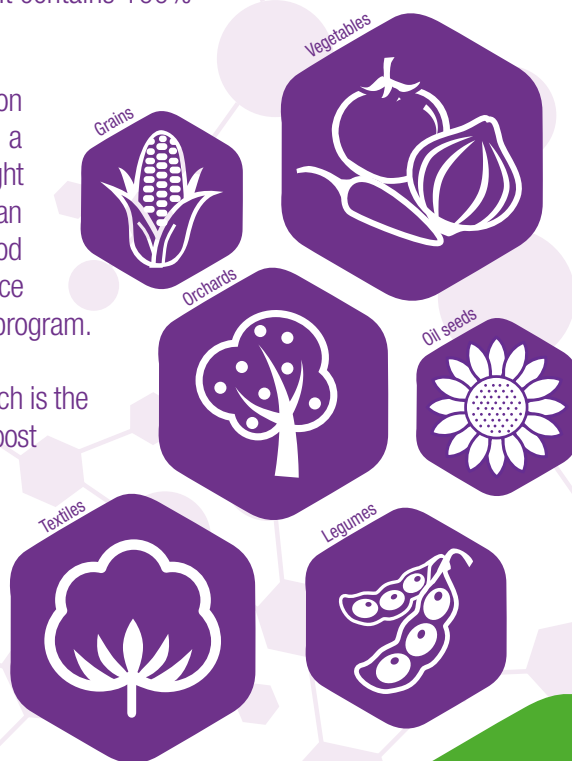
Water-Soluble Fertilizer Complement for N-Rich Solutions



UAN-Mate® 4-20-30 is a water-soluble fertilizer formula developed as a complement for N-rich solutions like UAN 32 or 28-0-0-5S. Its NPK formulation also contains secondary nutrients, micronutrients, plus organic acids to promote and increase nutrient absorption. It contains 100% water-soluble orthophosphate readily available to the plant.

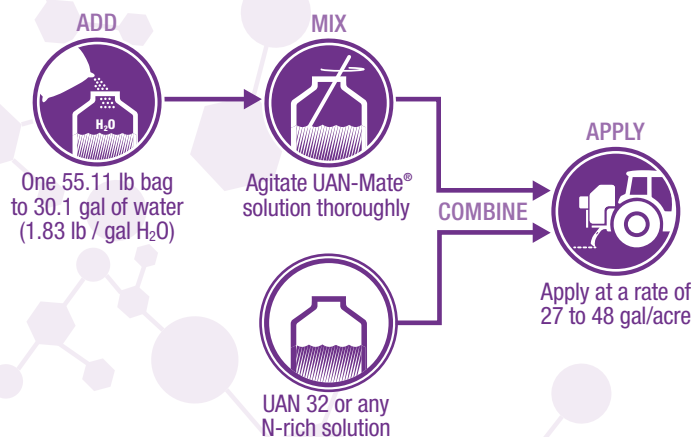
UAN-Mate® 4-20-30 formula should be dissolved with water to create a stock solution and then, this stock solution should be mixed with any N-rich solution to create a high-quality balanced formulation. You may also apply UAN-Mate® 4-20-30 as a straight product to concentrate a higher amount of key nutrients into the soil after or before an N-rich liquid fertilizer application. This product is suitable to be used on dryland, flood irrigation or through fertigation either on row crops, vegetables or orchards, as a source of high quality nutrients in one single formulation to supplement any crop nutrition program.

 This formulation is powered by **RBT™ Root Bioenhancer Technology**– which is the combination of organic acids in precise balance with inorganic nutrients that boost root biomass development and increase nutrient uptake by an improved interaction between soil and root system. A healthier and well-developed root system will allow to absorb a higher amount of nutrients hence the plant will express its full genetic potential in terms of enhanced growth, higher yields and improved quality on grains or produce.



Powered by
RBT™ Root Bioenhancer Technology

HOW TO PREPARE AN N-RICH SOLUTION / UAN-MATE® MIX



Dissolve UAN-Mate® 4-20-30 in water to obtain a stock solution; then combine this concentrated solution with any N-rich solution to create a high quality balanced formulation. Apply 27 to 48 gal/acre of the final mixed solution according to crop, phenological stage, and agricultural practices. For specific crops and application rates, please contact us or consult your agronomist or crop advisor.

UAN-Mate® 4-20-30 +11.5S+0.83Mg+0.158Fe+0.158Zn+1.18 OA* How to mix** stock sol. at 18%* (weight/weight)					
Mix		Stock Solution Properties			
Water	UAN-Mate®	Volume	Weight	Weight/Gal	Conc. (w/w)
30.1 gal	55.11 lb	32.5 gal	306 lb	9.40 lb	18%
9.83 gal	18 lb	10.63 gal	100 lb	9.40 lb	18%
92.5 gal	169.3 lb	100 gal	940 lb	9.40 lb	18%
100 gal	183 lb	108 gal	1,017 lb	9.40 lb	18%

*Weight/weight concentration, obtained with water at a temp. of 20°C / 68°F; for water at lower temperature, reduce the stock solution concentration and increase the application rate accordingly. Some measurements were rounded to facilitate field mixing.

RECOMMENDED MIXES / RATES

UAN 32 – UAN-Mate®				Recommended mixes/rates for different UAN 32 practices**			
If your standard application rate for UAN 32 is:		20 gal/acre	30 gal/acre	40 gal/acre			
Then, suggested rate of UAN 32/UAN-Mate® mix is:		27 gal/acre	37 gal/acre	48 gal/acre			
UAN 32/UAN-Mate® mix		For 27 gallons		For 37 gallons		For 48 gallons	
NPK	Mix Ratio	UAN 32	UAN-Mate	UAN 32	UAN-Mate	UAN 32	UAN-Mate
16-2-4	50 / 50	13.5	13.5	18.5	18.5	24	24
20-2-3	60 / 40	16	11	22	15	29	19
23-1-2	70 / 30	19	8	26	11	33.5	14.5

28-0-0-5S – UAN-Mate®				Recommended mixes/rates for different 28-0-0-5S practices**			
If your standard application rate for 28-0-0-5 is:		20 gal/acre	30 gal/acre	40 gal/acre			
Then, suggested rate of 28-0-0-5/UAN-Mate® mix:		27 gal/acre	37 gal/acre	48 gal/acre			
28-0-0-5/UAN-Mate® mix		For 27 gallons		For 37 gallons		For 48 gallons	
NPK	Mix Ratio	28-0-0-5	UAN-Mate	28-0-0-5	UAN-Mate	28-0-0-5	UAN-Mate
20-1-2-4S	70 / 30	19	8	26	11	33.5	14.5
23-1-1-4S	80 / 20	21.5	5.5	29.5	7.5	38.5	9.5

**Some volume measurements were rounded to facilitate field mixing.

Seven balanced nutrients plus organic acids in one Solution

UAN-Mate®				UAN-Mate® is powered by RBT™ Root Bioenhancer Technology; organic acids that promote root system development and enhance nutrient absorption by the plant.	
Mixing Ratio		Resulting Detailed Balance			
UAN 32	UAN-Mate				
50 %	50 %	16-2-4 +1.3S+0.10Mg+0.02Fe+0.02Zn+0.14 OA*			
60 %	40 %	20-2-3 +1.1S+0.08Mg+0.01Fe+0.01Zn+0.11 OA*			
70 %	30 %	23-1-2 +0.8S+0.06Mg+0.01Fe+0.01Zn+0.08 OA*			
Mixing Ratio		Resulting Detailed Balance			
28-0-0-5	UAN-Mate				
70 %	30 %	20-1-2 +4.1S+0.04Mg+0.01Fe+0.01Zn+0.06 OA*			
80 %	20 %	23-1-1 +4.4S+0.03Mg+0.01Fe+0.01Zn+0.04 OA*			

*OA=Organic Acids



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