



# K-Mate™ SG

## MIXING & APPLICATION INSTRUCTIONS

**K-Mate SG** is a highly concentrated organic product that is designed to be dissolved into water to make your own liquid humate solution. Because of the purity of the material, it does take some time for the material to be dissolved into water, but considering the cost, storage and freeze-proof advantages of the product, it is a great alternative to buying liquid humates. K-Mate SG can be tank mixed with water and fertilizer mixtures or with water alone, but must be solubilized first and utilized as a liquid before mixing with other ingredients. It is recommended to always perform a jar test before mixing with other liquid fertilizers.

### LIQUID HUMATE CONCENTRATIONS

Typical humic acid concentration levels for liquid humic acid products are between 6 and 12%. Use the table below to determine the amount of K-Mate SG and water to use to make your desired solution concentration.

HUMIC ACID SOLUTION CONCENTRATION (%)	K-MATE SG (lbs)	H2O (gal)
6	0.5	1
8	0.7	1
12	1	1

RECOMMENDED APPLICATION RATES				
CROP/METHOD	RATE	RATE AT 6% LIQUID	RATE AT 8% LIQUID	RATE AT 12% LIQUID
Field Crops (in-furrow)	1.0-3.0 lbs/acre	2-6 gallons	1.4-2.1 gallons	1-3 gallons
Field Crops (broadcast spray)	1.0-10.0 lbs/acre	2-20 gallons	1.4-14 gallons	1-10 gallons
Vegetables and Specialty Crops	1.0-10.0 lbs/acre	2-20 gallons	1.4-14 gallons	1-10 gallons
Vegetable and Fruit (row acre)	1.0-10.0 lbs/acre	2-20 gallons	1.4-14 gallons	1-10 gallons
Established General Turf	2.0-10.0 lbs/acre	4-20 gallons	1.4-10 gallons	2-10 gallons
Landscape Plants (broadcast spray)	3.0 lbs per 100 gallons of water	6 gallons	4.2 gallons	3 gallons
Root Injection	2.0 lbs per 100 gallons of water	4 gallons	2.8 gallons	2 gallons

### MIXING INSTRUCTIONS

- **High Shear Mixing Tank (Recommended):**  
Fill vessel with water, then slowly add the K-Mate SG granules. Mix for approximately 1 hour under aggressive agitation. Pump when fully dissolved.
- **Tote or Drum with Paddle Agitation:**  
Fill vessel with water, then slowly add the K-Mate SG granules. Mix until the granules have been fully dissolved, typically 1-2 hours depending on degree of agitation. Pump when fully dissolved.
- **Solutionizer (Specialized Humic Acid Solubilizer available through your Andersons representative):**  
Fill the Solutionizer with 250 gallons of water and once the level is reached, a light and alarm will indicate that the tank is filled to 250 gallons. Then you will turn on the recirculation pump and add 5 x 50 lb. bags of K-Mate SG in 2 minute increments and keep mixing for a total of 25-30 minutes. The resulting solution will be a perfect Liquid Humic Acid Concentrate 12% (A&L method) and can be pumped from the Solutionizer to a tote, tanker, or holding tank. At the rate of 25-30 minutes per 275 gallon tote, you can make about 16-18 totes of Liquid Humic Acid 12% in an 8 hour shift.
- **Tote or Drum with Circulation Pump:**  
Fill vessel with water, then slowly add the K-Mate SG granules. When using this method, it is best to have the circulated fluid discharged on the surface of the mixture in order to displace any floating material. The mixing time will depend on the concentration of the K-Mate SG solution being made in addition to the GPM of the pump. The material is ready to use when no undissolved particles of K-Mate SG are visible.

### TANK CLEANING TIPS

In order to remove traces of K-Mate SG from tank bottoms, lines, nozzles, etc., it is recommended that the system be flushed/circulated with clean water for approximately 5-10 minutes after the last application of the day. The thin film of K-Mate SG will not "pack" in the system or plug nozzles or screens but may remain as minute, loose particles in areas of low velocity as treatment comes to an end. Flushing will remove these traces and leave tanks clean and ready to use for your next application.

### FIELD APPLICATIONS

K-Mate SG can be applied to all crops. Apply 1-6 applications during the growing season.



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