

# Technical Bulletin

## WIF 'K'

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### Introduction

WIF 'K' contains 100% water soluble potassium which is immediately available to the plant. When combined with an adequate soil potassium program, it helps produce quality in high value fruits and vegetables.

WIF 'K' is designed to be dissolved in water followed by injection into irrigation systems. This product is a proprietary formulation that provides potassium from three sources with the correct amount of sulfate for proper plant uptake.

The role of potassium in potassium is to regulate the electrolytes and turgidity of plant cells which also controls the stomata. Potassium also assists in cell division and protein and carbohydrate formulation. Potassium is essential for the translocation of sugars and the formation of starches within the plant. Potassium is also important in fruit set, fruit size, and sugar content.

WIF 'K' has an acidic pH. The following chart shows the stock solution pH will be when starting with a pH of 8.1. As water quality may vary always confirm pH with a jar test.

<u>Concentration</u>	<u>pH</u>
1 lb/ 100 gal	5.7
1 lb/ 50 gal	5.4
1 lb/ 10 gal	4.7
1 lb/ 5 gal	4.3
1 lb/ 1 gal	3.8

### Recommended Crops

**Berries:** blackberry, blueberry, cranberry, raspberry, strawberry

**Nut Crops:** almond, pistachio, walnut and others

**Tree and Fruit Crops:** apple, grape (table and wine), cherry, citrus, stone fruits, cucurbits, avocado

**Vegetables:** beet, broccoli, cabbage, carrot, cauliflower, garlic, onion, pepper, pea, potato (inc. sweet), spinach, lettuce, tomato and others.

### Use Rates and Timing

WIF 'K' is most often recommended at 3 to 20 pounds per acre per application. Use middle to late in the growing season where potassium availability is crucial for finishing the crop. Other applications should be made based on tissue analysis and or crop requirements.

WIF 'K' is most often dissolved into a stock solution which is injected into the irrigation system. Do not exceed 1.5 lbs of WIF 'K' per gallon of water. WIF 'K' can be used in all irrigation systems including, drip tape, solid set, overhead, sprinkler, drip and pivot.



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### Precautions

Always dissolve WIF 'K' in the water prior to the addition of any other products. WIF 'K' is compatible with WIF 'P' and most commonly used pesticides. However, it should not be used with lead arsenate, hydrated lime, lime sulfur, or other strongly alkaline materials. Do not use with amine forms of 2,4-D or with dicamba. In all cases, a jar test is recommended to determine compatibility of WIF 'K' with other materials before proceeding with high volume mixing.

### Contents

#### Guaranteed Analysis- 8 - 0 - 50 + 3.5S

Total Nitrogen (N) . . . . .	8.0%
8.0% Nitrate Nitrogen	
Soluble Potash (K <sub>2</sub> O) . . . . .	50.0%
Sulfur (S) Total . . . . .	3.5%
3.5% Sulfur combined	
Arsenic (As).....	<0.003%
Cadmium (Cd).....	<0.002%
Iron (Fe).....	<0.005%
Lead (Pb).....	<0.001%

Derived from: potassium nitrate, potassium sulfate and muriate of potash.

### Technical Specifications

<b>Product class</b>	fertilizer
<b>Shipping Information</b>	Potassium Nitrate Mixed Fertilizer, 5.1, UN1486, PGIII.
<b>Appearance</b>	clear, blue odorless crystals
<b>Specific Gravity</b>	1.16 g/ml
<b>Salt Index</b>	77
<b>Potential Basicity</b>	301 lb calcium carbonate equivalent per ton
<b>pH (1% solution)</b>	4.8
<b>Water Solubility</b>	99.95% (% min)
<b>Sieve Test (98% min)</b>	
	-14 (1.41 mm) + 100 (0.18 mm)
<b>Packaging</b>	25 lb poly bags 50 lb poly bags 2,000 lb super sacks

**This bulletin provides some technical information and is not intended to give complete information for all applications. Always read and follow label directions.**

WIF 'K' is manufactured by RSA MicroTech, LLC.

