

# Technical Bulletin

## Platinum 2.5% Magnesium EDTA

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### Introduction

Platinum 2.5% Mg EDTA can be used to correct magnesium deficiencies in soils and plants. Platinum 2.5% Mg EDTA is fully chelated with EDTA acid. It is widely recognized as excellent source of magnesium for soil applications. The product is a premium formulation which is sodium free and is derived from magnesium dipotassium EDTA. Platinum 2.5% Mg EDTA has low use rates and is compatible with liquid fertilizers containing polyphosphates and orthophosphates.

### Symptoms

Symptoms of magnesium deficiency include:

- General loss of green color starting at the bottom leaves and later moving up the stalk while veins of leaves remain green
- Stalks are weak and roots are large and bunched
- Corn plants develop striped appearance, light yellow or white between the parallel veins.

### Function of Magnesium in Plants

- Essential part of chlorophyll
- Necessary for sugar formulation
- Regulates uptake of other plant nutrients
- Active in the translocation of starches
- Acts as a carrier of phosphorus in the plant



### Crops Labeled

**Berries:** blueberry, raspberry, strawberry

**Nut Crops:** almond and other nut crops

**Grain and Other Crops:** alfalfa, barley, canola, corn, hops, lentil, mint, sorghum, soybean, sweet corn, wheat, and cotton

**Vegetables:** broccoli, cabbage, cauliflower, carrot, celery, lettuce, onion, pea, pepper, potato

**Tree and Fruit Crops:** apple, citrus, grape, peach, plum and other tree fruits

### Use Rates and Timing

Platinum 2.5% Mg EDTA is most often recommended at 1/2 to 4 quarts per acre. It may be used for foliar or soil applications. However, foliar applications should only be made when local experience supports this use.

Platinum 2.5% Mg EDTA can be used alone or in combination with liquid fertilizer for pre-plant, starter or side-dress applications. For the most effective treatment of row crops, make soil applications in a band



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at planting or as a side-dress shortly after planting.

### Storage

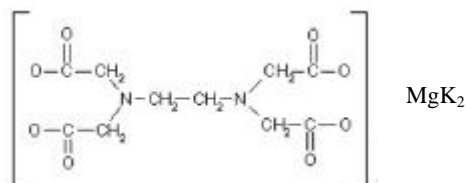
Store in stainless steel, fiberglass, polyethylene, or certain other plastic materials. Copper or any of its alloys (brass or bronze) should never be used in any chelate handling system. Aluminum tanks are not recommended. Check with equipment manufacturer for compatibility of components prior to use with this product. NOTE: Do not mix or contaminate any EDTA type chelates with strong acid materials.

### Contents

Guaranteed Analysis 2-0-9	
Nitrogen (N).....	2.0%
2% Other Water Soluble Nitrogen	
Soluble Potash (K <sub>2</sub> O).....	9.0%
Magnesium (Mg).....	2.5%
2.5% chelated Mg	
Arsenic (As).....	<5 ppm
Cadmium (Cd).....	<5 ppm
Lead (Pb).....	<5 ppm

Derived from magnesium dipotassium EDTA.

### Technical Specifications



<b>Product class</b>	fertilizer
<b>Formulation</b>	liquid
<b>CAS number</b>	15708-48-2
<b>Formula</b>	EDTA-MgK <sub>2</sub>
<b>Molecular Weight</b>	390.75
<b>Weight/ gallon</b>	10.8 pounds
<b>Specific gravity</b>	1.29
<b>pH (5% solution)</b>	7.5 to 9
<b>Solubility in water</b>	miscible
<b>Appearance</b>	light tan
<b>Odor</b>	none
<b>Min. storage temp.</b>	32°F
<b>Container size</b>	
	bulk
	250 gallon mini-bulks
	2 x 2.5 gallon package

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

Platinum 2.5% Cu EDTA is manufactured for RSA MicroTech, LLC.

