



MarKey®

Manganese 5% EDTA Chelate

4-0-4

Guaranteed Analysis

Total Nitrogen (N).....	4.00%
1.50% Ammoniacal Nitrogen	
2.50% Other Water Soluble Nitrogen	
Soluble Potash(K ₂ O).....	4.00%
Manganese(Mn).....	5.00%
5.00% Chelated Manganese	

Derived from: Ammonium hydroxide, Potassium hydroxide, Manganese diammonium ethylenediaminetetraacetate (EDTA) (Mn(NH₄)₂ EDTA)

Each gallon Contains:	0.42 lbs of N
	0.42 lbs of K ₂ O
	0.52 lbs of Mn
Specific Gravity:	1.245 g/mL
Density:	10.40 lbs/gal @ 68° F
pH Range:	7.5-8.5

Do not store MarKey® Manganese 5% EDTA Chelate for extended periods of time below 32° F. If frozen, warm to 32° F and agitate to solubilize any crystals.

WARNING

KEEP OUT OF REACH OF CHILDREN

EPA National Response Center: (800) 424-8802

GENERAL INFORMATION

MarKey® Manganese 5% Chelate solution is a fully chelated solution of manganese EDTA and is recommended for the prevention and correction of manganese deficiencies in crops. The preferred use is as a soil application to prevent the deficiency; however it may be used as a foliar spray to provide correction when soil application is impractical.

DIRECTIONS FOR USE

FOLIAR APPLICATIONS:

MarKey® Manganese 5% Chelate solution may be applied with water or in combination with most pesticides. Thorough coverage and the use of wetting agents often enhances uptake of foliar sprays. Crop sensitivity will determine application rate and dilution factors and the application method. Avoid applying this product when plants are suffering from moisture stress. If there is any doubt, first apply the spray solution to a test area of the crop or foliage to determine potential phytotoxicity or other undesirable effects.

Trees (Citrus): Apply 1 pint to 1 quart per 100 gallons of cover spray any time except during bloom.

Trees and Vines (Excluding Citrus): Apply 1 pint to 1 quart per acre in sufficient spray volume for thorough coverage (25 gallons minimum) at dormant/delayed dormant before bloom, then after full bloom at 2 to 3 week intervals as needed.

Note: for smooth skinned fruit (peach, pear, apple, etc.) apply 1 pint per acre in 50 to 100 gallons of water

Vegetable and Row Crops (Ground Equipment): Apply 1 pint to 1 quart per acre in sufficient spray volume for thorough coverage (25 gallons minimum).

SOIL APPLICATIONS

MarKey® Manganese 5% Chelate solution is recommended for use on all types of soils. Dilution of this product is recommended to insure uniform coverage. This dilution may be made with fertilizer solutions, water, or with compatible pesticides (use the standard jar test to determine compatibility). Soil applications may be made by drip, sprinkler, or furrow irrigation systems or in a band or broadcast fertilizer applications. For trees or individual plants, the chelate may be diluted as above or sprinkled directly on the soil uniformly under the plant's drip line, then watered in.

Vegetable Crops (Including Beans, Peas, Potatoes, Sweet Corn, Tomatoes): Apply 2 to 8 quarts per acre.

Row Crops (Including Corn, Dry Beans, Sorghum, Sugar Beets, Sugarcane): Apply 2 to 8 quarts per acre.

Trees and Vines (Including Almond, Apple, Apricot, Avocado, Berry, Cherry, Citrus, Grape, Olive, Pear, Peach, Pistachio, Plum, Walnut): Apply 2 - 10 quarts per acre or 5 Tbsp. per inch of tree diameter.

AERIAL APPLICATIONS

Apply 1/2 to 1 pint per acre in at least 10 gallons of water. For application timing and frequency, refer to appropriate foliar application recommendation above.

Use in accordance with recommendations of qualified individual or institution such as, but not limited to, a certain crop advisor, agronomist, university crop extension publication, or apply according to recommendations in your approved nutrient management plan. When tank mixing other products, "Jar Test" proportionally mixed components to confirm compatibility.

WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

CONDITIONS OF SALE AND WARRANTY

Mar Vista Resources (Seller) warrants that the chemical composition of this product conforms to the chemical description given on this label. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES AND REPRESENTATIONS EXPRESSED, IMPLIED, OR STATUTORY, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE. No one is authorized to make any other warranty, guarantee or directions concerning this product, and no such warranties, guarantees or directions shall be valid or binding upon Seller. Timing, rate and method of application, weather and crop conditions, mixtures with chemicals not specifically recommended on this label or an accompanying written recommendation, are beyond the control of Seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. In no case shall Seller be liable for consequential, special, indirect, or incidental damages or losses resulting from the handling or use of this product. The foregoing is a condition of sale by Seller and is accepted as such by the buyer. Buyer further agrees in the event of damages arising from the use of this product to accept a replacement of the product or a refund of the purchase price of the product, at buyer's option, as full discharge of Seller's liability.

NET CONTENTS: BULK

NET CONTENTS: 275 Gal (1,040.9 L) Tote

NET CONTENTS: 2.5 Gal (9.46 L) Jug

NET CONTENTS: _____

Information regarding the contents and levels of metals in this product is available on the internet at: <http://www.aapfco.org/metals.html>

Guaranteed, Manufactured & Formulated By:



Mar Vista
Resources™

Providing Resources for Value Creation™

745 North Ave • Corcoran, CA 93212 • Office: (559) 992-4535

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