

Helena

Ele-Max[®] Manganese FL 3-0-0

PRECISION NUTRITION[®]

Foliar Nutritional Liquid Flowable

GUARANTEED ANALYSIS

Total Nitrogen (N)	3.00%
3.00% Urea Nitrogen	
Manganese (Mn)	27.40%
0.00% Water Soluble Manganese (Mn)	

Derived from urea and manganese carbonate.

Chlorine (Cl), Maximum

Nutrient content per gallon: 4 lb. 2 oz. Manganese (Mn).

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Inside Panel for Additional Precautionary Statements

SN 1104/0205-LUS6731

WT. PER GAL.: 15.22 lbs (6.90 kg)

NET CONTENTS: 2.5 GAL. (9.46 L)

NET WEIGHT: 38 lbs. 1 oz. (17.26 kg)

Information about the components of this lot of fertilizer may be obtained by writing to Helena Chemical Company, 225 Schilling Boulevard, Suite 300, Collierville, TN 38017 and giving the lot number which is found on the container.

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

Contents Made In Great Britain

F224

MANUFACTURED FOR
HELENA CHEMICAL COMPANY
225 SCHILLING BOULEVARD
COLLIERVILLE, TN 38017

A formulated product for the treatment of manganese deficiency by foliar application.

PRECAUTIONARY STATEMENTS

CAUTION

BEFORE USING THIS PRODUCT, READ ALL PRECAUTIONS, DIRECTIONS FOR USE, CONDITIONS OF SALE—LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES.

Particles in suspension, entry into eyes may cause irritation. May cause skin irritation. Avoid skin and eye contact. Deliberate or accidental ingestion or inhalation of excessive quantities may be harmful. Wear suitable gloves and faceshield when handling this product. Do not take internally. Avoid contact with or inhalation of the spray mist. Do not apply this product in such a manner as to directly expose workers or other persons. If product is being mixed with pesticides and/or spray adjuvants, follow all precautionary statements on the accompanying product(s) labeling.

WHAT TO DO IN CASE OF CONTACT:

IF IN EYES: Flush eyes with clean water for 15 minutes holding eyelids open. Obtain medical attention if irritation develops.

IF ON SKIN: Remove contaminated clothing and wash skin with soap and water. Call a doctor if irritation persists.

IF SWALLOWED: If conscious, give milk or water to drink. Immediately call a doctor.

IF INHALED: Move to fresh air and call a doctor if irritation develops or persists. If there is contact made with the spray solution containing pesticides and/or spray adjuvants, follow the "Statement of Practical Treatment/First Aid" on the product(s) labeling.

STORAGE AND DISPOSAL

Keep in a cool, dry chemical store, out of reach of children and livestock. Protect from frost. Keep container tightly closed, do not allow water to be introduced to the contents of this container. Store at temperatures above 32°F. Do not contaminate water sources by cleaning of equipment or disposal of spray waste. Dispose of empty containers by triple rinsing with detergent solution or puncture and discard empty containers in a landfill in accordance with current local, state and federal regulations.

GENERAL INFORMATION

MANGANESE FL is a formulated treatment for manganese deficiencies in a wide range of crops. **MANGANESE FL** may be impregnated onto dry fertilizer granules. This product is recommended for use as a supplement to a well-balanced fertilizer program only. It is not intended nor implied to be a substitute for sound

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soil fertilization and good conventional cultural practices. Thorough coverage of foliage is necessary for best results.

For additional information on product or programs or if you are unfamiliar with any of the application methods, contact your local Helena representative or authorized Helena dealer.

Avoid application under extremes of climate, e.g. rapid drying conditions, extremely slow drying conditions, frost, rain, or when frost or rain are anticipated.

DIRECTIONS FOR USE

Shake the container thoroughly before use.

Fertilizer Impregnation: Manganese FL may be impregnated onto dry fertilizer granules. Consult your local Helena representative for details.

FOLIAR DOSE RATE AND TIMINGS

Alfalfa: 1 pint/acre when sufficient leaf cover to intercept spray and at flower bud formation. Water rate: 3 to 20 gallons/acre.

Apples: 1 pint/acre prior to flowering in the case of severe deficiency. Otherwise commence at petal fall and repeat 10 to 14 days later. On russet sensitive varieties delay applications until 6 weeks after petal fall. Water rate: 50 to 100 gallons/acre.

For improved green background color (note specified varieties only): 6 applications of 0.25 pints/acre from June drop to around 4 weeks pre-harvest. Also, 1 pint/acre after harvest before leaf senescence. Water rate: 30 gallons/acre. Applies to varieties: Jonagold, Elstar, Cox, Golden Delicious and Granny Smith.

Beans: 1 pint/acre at 4 to 6 leaf stage (for deficiency/yield) and 1 pint/acre at start of flowering and end of flowering (for quality). Water rate: 20 gallons/acre.

Blackcurrants: 1 pint/acre at start of flowering. Water rate: 50 gallons/acre.

Canola: For a single application, 1 pint/acre at onset of stem extension. For moderate deficiency, 1 pint/acre at 4 to 6 leaf stage and at onset of stem extension. An extra application can be made 10 to 14 days later for severe deficiency. Avoid flowering. Water rate: 20 gallons/acre.

Carrots (field grown): 1 pint/acre when crop is 6" tall. For moderate to severe deficiency repeat applications at 10 to 14 day intervals. Water rate: 20 gallons/acre.

Cereals: 1 pint/acre from 2 leaf stage to first node detectable (Zadok's G.S. 12 to 31). For moderate to severe deficiency repeat applications at 10 to 14 day intervals. Water rate: 20 gallons/acre.

Citrus: 1 1/2 pints/acre during spring and autumn flushes. Water rate: 100 gallons/acre.

Cole Crops (Broccoli, Brussels Sprouts, Cabbage, Calabrese, Cauliflower): 1 pint/acre from 4 true leaves. For moderate to severe deficiency, repeat applications should be made at the above rate at 10 to 14 day intervals. Water rate: 20 gallons/acre.

Corn: 1 pint/acre at 4 to 6 leaf stage. For moderate to severe deficiency repeat applications at 10 to 14 day intervals. Water rate: 20 gallons/acre.

Cotton: 1 pint/acre applied 21 to 28 days after emergence and 10 to 14 days later. Water rate: 3 to 20 gallons/acre.

Deciduous Nuts: 1 pint/acre at bud break in spring. Repeat after 15 days if necessary. Water rate: 50 gallons/acre.

Leek: 1 pint/acre two weeks after transplanting, or in the case of direct sown crops, when the crop is 6 inches tall. Repeat applications may be necessary at 10 to 14 day intervals. Water rate: 20 gallons/acre.

Lettuce (field grown): 1 pint/acre 10 to 14 days after transplanting or emergence. For moderate to severe deficiency repeat applications at 10 to 14 day intervals. Water rate: 50 gallons/acre.

Linseed: 1 pint/acre when crop is 6 inches tall. For moderate to severe deficiency repeat applications at 10 to 14 day intervals. Water rate: 3 to 20 gallons/acre.

Nectarines: 1 pint/acre applied from fruit set. Repeat if necessary at 10 to 14 day intervals. Water rate: 50 to 100 gallons/acre

Onion (field grown): 1 pint/acre two weeks after transplanting, or in the case of direct sown crops, when the crop is 6 inches tall. Repeat applications at 10 to 14 day intervals. Water rate: 20 gallons/acre.

Ornamentals: 5 pints in 100 gallons of water (0.625% v/v) as soon as there is sufficient leaf area to obtain thorough coverage. Repeat at 10 to 14 day intervals as necessary. Avoid application during flowering. Spray maximum of three applications per crop per annum. **Note: Do not apply within one month of picking/marketing.** Maximum water rate: 20 gallons/acre.

Peanuts: 1 pint/acre applied at the 6 leaf stage and again 10 to 14 days later. Water rate: 3 to 20 gallons/acre.

Pears: 1 pint/acre prior to flowering in the case of severe deficiency. Otherwise commence at petal fall and repeat 10 to 14 days later. On russet sensitive varieties delay applications until 6 weeks after petal fall. Water rate: 50 to 100 gallons/acre.

Peas: 1 pint/acre at 4 to 6 leaf stage (for deficiency/yield) and 1 pint/acre at start of flowering and end of flowering (for Marsh Spot). Water rate: 20 gallons/acre.

Potatoes: 1 pint/acre at one week after 100% emergence and following petiole analysis during tuber bulking. For moderate to severe deficiency, repeat applications at 10 to 14 day intervals. Water rate: 20 gallons/acre.

Raspberries: 1 pint/acre at start of flowering. Water rate: 50 gallons/acre.

Rice: 1 pint/acre applied at start of tillering. Water rate: 3 to 20 gallons/acre.

Soybean: 1 pint/acre when crop is 2 to 6 inches tall (4 to 6 leaves). Water rate: 20 gallons/acre.

Stone Fruit (Apricot, Cherry, Nectarine, Peach, Plum): 1 pint/acre applied from fruit set. Repeat if necessary at 10 to 14 day intervals. Water rate: 50 to 100 gallons/acre.

Strawberry (field grown): 1 pint/acre at green bud. Repeat if needed at 10 to 14 day intervals. Water Rate: 50 gallons/acre.

Sugar Beet: 1 pint/acre from 4 to 6 leaf stage. For moderate to severe deficiency, applications may be repeated at 10 to 14 day intervals. Water rate: 20 gallons/acre.

Sugar Cane: 1 pint/acre when plants are 3 to 4 feet tall. Water rate: 3 to 35 gallons/acre.

Sunflower: 1 pint/acre at 4 to 8 pairs of leaves. For moderate to severe deficiency, repeat 10 to 14 days later. Water rate: 3 to 20 gallons/acre.

Tobacco: 1 pint/acre applied two to three weeks after transplanting (3 to 4 leaf stage). Repeat 10 days later if necessary. Water rate: 40 gallons/acre.

Tomato (field grown): 0.5 to 1 pint/acre at the 4 to 6 leaf stage and repeated at 10 to 14 day intervals if required by moderate to severe deficiency. Water rate: 3 to 50 gallons/acre.

Turf: 0.5 to 1.0 fl. oz./1,000 sq. ft. Apply as soon as growth commences in the spring and repeat at 10 to 14 day intervals as necessary. Water rate: 0.5 gallons/1,000 sq. ft.

Vines: 1 pint/acre at flower buds visible, flower buds separated and at fruit set. Water rate: 50 to 100 gallons/acre.

For further approved recommendations for this product, please visit www.megalab.net/elemaxlabels and enter 19940164.

MIXING INSTRUCTIONS

Prior to any fertilizer or pesticide application all spray mixing and application equipment must be cleaned. A tank cleaner such as **WipeOut®** is recommended. Carefully observe all cleaning directions on the pesticide label. **Tank Mixing:** Read ALL product labels carefully and adhere strictly to the instructions for use and advice regarding whether or not products should be tank mixed. Many variables, outside the control of Helena Chemical Company, can influence the performance of tank-mixed products and therefore tank mixing of **Ele-Max®** products is entirely at the risk of the end-user. A limited crop area only should be treated initially when using unfamiliar tank mixes. Before tank mixing you, or your advisor, must visit www.tankmix.com/elemax for important information. Alternatively contact Helena Chemical Company for specific information and limits to our liability. Fill the spray or mix tank one half full of water and begin agitation. Add pesticides and/or fertilizers as directed by labeling or in the following sequence:

1. Micronutrients and Fertilizers
2. Compatibility agents
3. Dry flowables or water dispersible granules
4. Wettable powders
5. Flowables
6. Water based solutions
7. Emulsifiable concentrates
8. Spray adjuvants

CONDITIONS OF SALE—LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale—Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

This label is believed to be reliable and should be followed carefully. Injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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