



# 5-4-2

## With 2% Manganese

### LIQUID NUTRIENT FOR FOLIAR FEEDING OF PLANTS

#### GUARANTEED ANALYSIS

Total Nitrogen (N)	5.00%
1.20% Ammoniacal Nitrogen	
3.80% Urea Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	4.00%
Soluble Potash (K <sub>2</sub> O)	2.00%
Manganese (Mn)	
2.00% Chelated Manganese (Mn)	2.00%

Derived from potassium hydroxide, ammonium phosphate, urea, and manganese EDTA. The chelating agent is EDTA (ethylenediaminetetraacetic acid). Contains 1.40 lbs. of plant nutrients per gallon.

### KEEP OUT OF REACH OF CHILDREN WARNING

May be harmful if swallowed  
May be harmful in contact with skin  
Causes eye irritation  
Causes mild skin irritation  
May be harmful if inhaled  
May cause an allergic skin reaction

See Inside Panel for Additional Precautionary Statements



SN 0513/0814

WEIGHT PER GALLON: 10.2 lbs. (4.63 kg)

- NET CONTENTS:
- 2.5 gal. (9.46 L)  
Net Wt.: 25.28 lbs. (11.46 kg)
  - 250 gal. (11.46 L)  
Net Wt.: 2,527.50 lbs. (1,146.47 kg)
  - Bulk \_\_\_\_\_

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>

**F224**  
**Manufactured For**  
**HELENA CHEMICAL COMPANY**  
**225 SCHILLING BOULEVARD, SUITE 300**  
**COLLIERVILLE, TN 38017 • (901) 761-0050**

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

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

May be harmful if swallowed. May be harmful in contact with skin. Causes eye irritation. Causes mild skin irritation. May be harmful if inhaled. May cause an allergic skin reaction. Keep product locked up and out of the reach of children. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or smoking tobacco. Remove and wash contaminated clothing before reuse. Do not take internally. Avoid contact with or inhalation of spray application mist if present. 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. Not for human or animal consumption.

**Personal Protective Equipment (PPE):** Wear protective eyewear (goggles or face shield), chemical-resistant gloves, long-sleeved shirt and long pants, and shoes plus socks. Do not smoke, drink, or eat while using this product. Take off any contaminated clothing and wash before reuse.

#### FIRST AID

<b>IF SWALLOWED:</b>	• Call a poison center or doctor if you feel unwell: Rinse mouth.
<b>IF IN EYES:</b>	• Rinse cautiously with water for several minutes. • Remove contact lenses, if present and easy to do. • Continue rinsing. Immediately call a poison center/doctor.
<b>IF ON SKIN:</b>	• Remove contaminated clothing and wash skin with soap and water. • If skin irritation occurs, get medical advice/attention.
<b>IF INHALED:</b>	• Call a poison center or doctor if you feel unwell.

#### STORAGE AND DISPOSAL

Keep container tightly closed. May be stored in unheated area, but keep from freezing.

Do not contaminate water sources by cleaning of equipment or disposal of rinse-water.

Dispose of empty containers by triple rinsing (or equivalent) with water and pouring rinsate into spray tank. Recycle rinsed containers whenever possible or puncture and discard empty containers in a landfill in accordance with current local, state, International and federal regulations.

Foliar fertilization is intended as a supplement to a regular fertilization program and will not, by itself, provide all the nutrients normally required by agricultural crops.

**Ele-Max® Nutrient Concentrate Plus 2% Manganese** is a liquid plant nutrient that improves the general plant condition and is a valuable supplement to soil fertilizer programs, particularly where there are adverse conditions for the uptake of primary nutrients from the soil.

#### PHYSICAL PROPERTIES

**Temperature Sensitivity:** Unaffected down to 5°C or 41°F. Lower temperature will result in partial crystallization, but the product will reconstitute above 5°C or 41°F.

**Compatibility:** **Ele-Max® Nutrient Concentrate Plus 2% Manganese** is compatible with most fungicides, insecticides and herbicides. Some exceptions are alkaline mixtures like lime sulfur.

#### RECOMMENDATIONS

**Ele-Max® Nutrient Concentrate Plus 2% Manganese** may be applied to many crops, including row crops. The use of **Ele-Max® Nutrient Concentrate Plus 2% Manganese** for foliar feeding is particularly advantageous on crops that have fast and heavy foliar growth. The application of **Ele-Max® Nutrient Concentrate Plus 2% Manganese** is also recommended in combination with herbicidal sprays in many cereals and row crops.

#### SUGGESTED DIRECTIONS

**Ele-Max® Nutrient Concentrate Plus 2% Manganese** should be used in all crop protection sprays with minimum volumes of 5 gallons/A by ground and 2 gallons/A by air, however, the concentration of **Ele-Max® Nutrient Concentrate Plus 2% Manganese** should not exceed 1 quart in 5 gallons of solution (5 percent by volume).

The following table is a guide for the use of **Ele-Max® Nutrient Concentrate Plus 2% Manganese** as a plant nutrient. Rates and frequency of application will depend on individual management programs. Use of **Ele-Max® Nutrient Concentrate Plus 2% Manganese** on any crops not listed on this table must be as a result of recommendations from your local agricultural authority.

Crop	Suggested Rate <sup>(1)</sup> Quart/Acre	Remarks
Alfalfa	1-2	Apply after each cutting for hay. On seed alfalfa, make 4 applications.
Corn <sup>(2)</sup> , Barley <sup>(2)</sup> Wheat <sup>(2)</sup>	1-2	Apply with crop protection sprays or at 7- to 10-day intervals. Begin 3 weeks after emergence.
Cotton	1-2	Apply anytime prior to first bloom for quicker recovery from stress conditions.
Dry Beans <sup>(2)</sup>	1-3	Anytime prior to bloom for faster recovery from stress conditions. Apply with crop protection sprays.
Milo	1-2	Apply with crop protection sprays or at 7- to 10-day intervals. Begin 3 weeks after emergence.

(continued)

Crop	Suggested Rate <sup>(1)</sup> Quart/Acre	Remarks
Peanuts	1-2	Apply with crop protection sprays.
Rice	1-2	Apply at Panicle Initiation or early Booting. Do not apply at both growth stages as a reduction in yield may occur.
Soybeans <sup>(2)</sup>	1-3	Anytime during the growing season for faster recovery from stress conditions. Apply with crop protection sprays.
Sugar Beets <sup>(2)</sup>	2	2-3 applications have shown marked increases in beet and sugar yields.

**Note (1):** Use in accordance with recommendations of a qualified individual or institution, such as, but not limited to, a certified crop advisor, agronomist, university crop extension publication, or apply according to recommendations in your approved nutrient management plan.

**Note (2): FOR USE IN WISCONSIN: Ele-Max® Nutrient Concentrate Plus 2% Manganese** can be applied to these crops commonly grown in Wisconsin and requiring a medium to high level of manganese.

**NURSERY & GREENHOUSE:** Use 1 quart per 100 gallons of water on plants, flowers, shrubs and trees for direct spray to foliage and for transplanting work. For preparing transplant slurry add 2 ounces per 3 gallon bucket of puddled soil. **NOTE:** In a sprinkler system, use 1 pint per 100 gallons or more of water every 2-3 weeks or 4 ounces per 100 gallons or more of water 2-3 times a week per 400 sq. ft. of area. Do not apply prior to 21 days after planting.

**COMMERCIAL TURF AREAS:** For Kentucky and Merion Blue, Bent, Bermuda and Zoysia grasses. The type of grass, color and rate of growth will dictate rate and frequency of application. For golf course applications, 7 oz. per 1,000 sq. ft. equals 1/16 lb. of Nitrogen; 14 oz. per 1,000 sq. ft. equals 1/8 lb. of Nitrogen.

**Ele-Max® Nutrient Concentrate Plus 2% Manganese** can be combined with fungicides and/or soil insect treatments (see Compatibility). Apply 1 qt. in 100 gallons of water per 5,000 sq. ft. or 6 oz. in 10 gallons per 1,000 sq. ft. Apply monthly starting February or March. More frequent applications for desirable color and growth, especially on Bermuda and Zoysia grasses. Apply with watering can, hose proportioner or sprayer.

Do not apply near water, storm drains, or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn/garden, and sweep any product that lands on the driveway, sidewalk, or street, back onto your lawn/garden.

**FOR USE IN MARYLAND:** The product is being used in accordance with a soil test that was conducted by a laboratory identified under § 8-803.7 of the Agriculture Article, Annotated Code of Maryland, performed no more than 3 years before the application.

## 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 must 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.

© Copyright Helena Holding Company, 2014

**Ele-Max®**, **PRECISION NUTRITION®** and **ENC®** are registered trademarks of Helena Holding Company.