



GHEP LIQUID MANGANESE 4-0-0

**COMPLEXED MICRONUTRIENT FOR PREVENTION AND CORRECTION OF MANGANESE DEFICIENCY IN CROPS
For Foliar or Soil Application**

GUARANTEED ANALYSIS

Total Nitrogen (N)	4.00%
4.00% Nitrate Nitrogen	
Manganese (Mn)	10.00%
10.00 % Water Soluble Manganese (Mn)	

Derived from manganese nitrate and manganese glucoheptonate.
The complexing agent is sodium glucoheptonate.

KEEP OUT OF REACH OF CHILDREN

DANGER

May be harmful if swallowed
May be harmful in contact with skin
Causes severe skin burns and eye damage
May be harmful if inhaled
May cause respiratory irritation
May intensify fire; oxidizer



NET CONTENTS: 2.5 gal. (9.46 L) WBU-SN 061115G
Net Wt.: 29.0 lbs. (13.15 kg)
 5 gal. (18.92 L)
Net Wt.: 58.0 lbs. (26.31 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>

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

DANGER

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 severe skin burns and eye damage. May be harmful if inhaled. May cause respiratory irritation. May intensify fire; oxidizer. 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 when using this product. Take off any contaminated clothing and wash before reuse.

FIRST AID

IF IN EYES:	<ul style="list-style-type: none"> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none"> Call a POISON CENTER or doctor immediately. Rinse mouth. Do NOT induce vomiting. Do not give anything by mouth to an unconscious

	<ul style="list-style-type: none"> person. Immediately call a POISON CENTER or doctor.
IF INHALED:	<ul style="list-style-type: none"> Move person to fresh air and keep at rest in a position comfortable for breathing if they feel unwell. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a POISON CENTER or doctor for treatment advice.
IF ON SKIN OR HAIR:	<ul style="list-style-type: none"> Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.	

STORAGE AND DISPOSAL

TRACITE® GHEP LIQUID MANGANESE 4-0-0 is corrosive to aluminum, mild steel and brass. Store and/or ship in polypropylene, fiberglass or stainless steel containers. Use only stainless steel or P.V.C. fittings.

STORAGE: Store in cool place in original container in a locked storage area inaccessible to children, pets or wildlife.

CONTAINER DISPOSAL: Do not reuse empty containers. Triple rinse thoroughly before discarding in trash.

PRODUCT INFORMATION

TRACITE® GHEP LIQUID MANGANESE 4-0-0 is a micronutrient compound formulated with a complexing agent derived from the natural organic sugars of glucoheptonic acids. These sugar acids have the capacity to form multi-bond, water soluble complexes with various metal ions resulting in an exceptionally stable product. The micronutrient stays soluble and mobile and does not react with soil or fertilizer.

TRACITE® GHEP LIQUID MANGANESE 4-0-0 is non-phytotoxic and is safe to use as foliar or aerial application or in X-O-X fertilizer grades used in drip irrigation. Glucoheptonate is a natural sticking agent making it very effective for foliar application.

DIRECTIONS FOR USE

TRACITE® GHEP LIQUID MANGANESE 4-0-0 readily mixes in water and is compatible with most pesticides. It may be added to nitrogen solutions, X-O-X and other mixed liquid fertilizers and it may be impregnated on dry fertilizers. DO NOT MIX WITH HIGH PHOSPHATE FERTILIZERS SUCH AS 10-34-0. Due to the variety of chemicals and uses it is advisable to test compatibility before mixing. Mixing sequence: 1) water, 2) TRACITE® GHEP LIQUID MANGANESE 4-0-0, 3) pesticide. Use 20 gallons water per acre for ground spray equipment and at least 5 gallons for aerial application. Agitate thoroughly.

GENERAL RECOMMENDATIONS

TRACITE® GHEP LIQUID MANGANESE 4-0-0 can be used on all crops for the prevention and correction of micronutrient deficiencies.

SOIL APPLICATION: Optimum rate of application will vary between fields, depending on soil pH, organic matter content and other factors. Therefore, for best results follow soil test and plant analysis recommendations. In the absence of test results use the following as a guide:

Severe deficiency:	4-6 qts. per acre
Moderate deficiency:	2-4 qts. per acre
Maintenance:	1-2 qts. per acre

FOLIAR APPLICATION:

ROW CROPS: Apply 1-2 qts. per acre per application every 2-3 weeks for maximum of 4 applications.

VEGETABLE CROPS: Apply 1-2 qts. per acre per application every 10-14 days for maximum of 1½ gals. per acre.

FRUIT AND NUT TREES: Apply 2-4 qts. per acre per application beginning when fully leafed out. Repeat 3-4 times for maximum of 2 gals. per acre.

CITRUS: Apply 2-4 qts. per acre per application. Repeat 2-3 times.

TURF: Apply 3-6 ozs. per 1,000 sq. ft. Repeat as needed.

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

Disclaimer: Always refer to the label on the product before using Helena or any other product.

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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