

# ECO-MATE®

## MANGANESE 5%

COMPLEXED MICRONUTRIENT FOR PREVENTION AND CORRECTION OF MANGANESE DEFICIENCY IN CROPS FOR ORGANIC AND STANDARD CROP PRODUCTION

FOR ORGANIC AND STANDARD CROP PRODUCTION

### GUARANTEED ANALYSIS

Sulfur (S) .....	3.25%
3.25% Combined Sulfur (S)	
Manganese (Mn) .....	5.00%
5.00% Water Soluble Manganese (Mn)	

Derived from manganese sulfate and lignin sulfonate.  
The complexing agent is lignin sulfonate.

KEEP OUT OF REACH OF CHILDREN

### WARNING

Harmful if swallowed  
May be harmful in contact with skin  
Causes eye irritation  
Causes mild skin irritation  
May be harmful if inhaled



SN 040715/0615G

FREEZING TEMP: 30°F

NET CONTENTS:

WEIGHT PER GALLON: 10.0 lbs (4.54 kg)

Information about the components of this lot of fertilizer and directions for use 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.

Harmful if swallowed. May be harmful in contact with skin. Causes eye irritation. Causes mild skin irritation. May be harmful if inhaled. 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"> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
IF SWALLOWED:	<ul style="list-style-type: none"> <li>Call a POISON CENTER or doctor immediately.</li> <li>Rinse mouth. Do NOT induce vomiting.</li> <li>Do not give anything by mouth to an unconscious person.</li> <li>Immediately call a POISON CENTER or doctor.</li> </ul>
IF INHALED:	<ul style="list-style-type: none"> <li>Move person to fresh air and keep at rest in a position</li> </ul>

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

	<p>comfortable for breathing if they feel unwell.</p> <ul style="list-style-type: none"> <li>If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>Call a POISON CENTER or doctor for treatment advice.</li> </ul>
IF ON SKIN OR HAIR:	<ul style="list-style-type: none"> <li>Take off immediately all contaminated clothing. Rinse skin with water or shower.</li> <li>Get medical attention if irritation develops or persists.</li> <li>Wash contaminated clothing before reuse.</li> </ul>
<b>HOT LINE NUMBER</b> 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.	

<b>STORAGE AND DISPOSAL</b> Keep container tightly closed. Do not allow water to be introduced to the contents of this container. 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.
<b>GENERAL INFORMATION</b> Foliar fertilization is intended as a supplement to a regular fertilization program and will not, by itself, provide all the nutrients normally required by crops or other intended plants. ECO-MATE® MANGANESE 5% is a complexed micronutrient designed for foliar or soil application. It is recommended for use as an additive in dry or liquid fertilizers and is compatible with most of the herbicides, insecticides and agricultural chemicals that can be utilized in combination with liquid fertilizers. ECO-MATE® MANGANESE 5% may not be compatible with some liquid fertilizer formulations. A pre-mix "jar test" is recommended prior to mixing with liquid fertilizers to check compatibility. ECO-MATE® MANGANESE 5% is an effective pH reduction agent. <p><b>NOTE:</b> ECO-MATE® MANGANESE 5% cannot be used in liquid fertilizers which contain orthophosphates. <b>DO NOT MIX WITH CATIONIC PESTICIDES.</b></p> <p><b>NOTE:</b> When applying this product in a tank mix for Organic Production, make sure that all products in the mix are certified or approved for organic production.</p>

<b>RECOMMENDED CROPS</b> ECO-MATE® MANGANESE 5% can be applied to the following crops: Vegetables, fruit, row crops, deciduous fruit and nut trees, citrus trees and commercial turf and ornamentals. <b>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.</b>
<b>APPLICATION AND MIXING GUIDE</b> Rates and timing of applications are dependent on local conditions and should always be made as a result of soil and/or plant tissue analysis and in conjunction with your local agricultural authority. <p><b>FOR USE IN WISCONSIN:</b> ECO-MATE® MANGANESE 5% can also be applied to the following crops commonly grown in Wisconsin and requiring a medium to high level of manganese: Barley; Beans, lima, navy; Beet; Broccoli; Brussels sprouts; Cabbage; Canola; Carrots; Cauliflower; Celery; Corn, field, sweet; Cucumber; Lettuce; Oats; Onion; Pasture, bluegrass; Pasture, tall grass; Peas, canning; Peas, chick, field, cow; Potato; Radish; Sod; Sorghum, grain; Sorghum, sudan; Soybean; Spinach; Tomato; Triticale; Wheat.</p> 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. <p>ECO-MATE® MANGANESE 5% may be applied by ground or aerial application. Use enough water for thorough coverage of foliage or soil. Thorough coverage is necessary for best results and the addition of a nonionic surfactant such as <b>INDUCE®</b> is recommended.</p> <p><b>MIXING:</b> In any mixing operation, ECO-MATE® MANGANESE 5% should be introduced in the following sequence:</p> <ol style="list-style-type: none"> <li>Water</li> <li>ECO-MATE® MANGANESE 5%</li> <li>Other Fertilizers or Pesticides</li> </ol> In mixtures where a compatibility agent is suggested, a product such as <b>BUFFER P.S.™</b> is recommended. Local climatic conditions, infestations, and other factors affect the performance of any insecticide, fungicide and nutritional spray. Therefore, for specific use, consult your local Helena Chemical Company representative or your local agricultural extension agent.

<b>CONDITIONS OF SALE—LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES</b> 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.
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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.

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