



MANGANESE-TO-PERFORM™

F002806

LIQUID MANGANESE FOR FOLIAR APPLICATION

GUARANTEED ANALYSIS

Sulfur (S)	6.50%
6.5% Combined Sulfur (S)	
Manganese (Mn)	11.00%
11.0% Water Soluble Manganese (Mn)	

Derived From: Manganese Sulfate

DENSITY: 11.52 LBS/GAL @ 68°F (20°C)

STORE ABOVE 40°F

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



KEEP OUT OF REACH OF CHILDREN

DANGER Causes serious eye damage. May cause damage to central nervous system and lungs through prolonged or repeated exposure.

Do not breathe spray. Get medical attention if you feel unwell. Wear protective gloves, protective clothing and eye protection. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Dispose of container in accordance with regulations.



Technovation

Specialized to succeed

**NET CONTENTS: 2.5 GALLONS (9.5 Liters)
5 Gallons (18.9 Liters)**

**NET WEIGHT: 28.8 LBS (13.1 kg)
57.6 LBS (26.1 kg)**

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Nicholasville
Kentucky
40356

DIRECTIONS FOR USE

MANGANESE-TO-PERFORM™ is recommended for use on all crops during plant growth periods that require relatively high levels of manganese.

MANGANESE-TO-PERFORM™ is a fully water soluble, effective, readily available source of manganese for soil and foliar applications.

MANGANESE-TO-PERFORM™ will be influenced by differences in crop varieties, soil and environmental conditions and should be applied under conditions of optimum plant growth. Optimum conditions are defined as adequate humidity, moderate temperatures and adequate soil moisture. Optimum conditions for foliar application to most crops generally occur during early morning or late evening hours.

- Do not apply to crops that are water or heat stressed or in very windy conditions.
- Wear suitable protective clothing when sprayed with other products.
- For best results with this product, the pH of the tank mixture should be between 5 and 6.
- This product should be applied as a foliar spray when crops have sufficient leaf area.
- For optimum results MANGANESE-TO-PERFORM™ should be used in a plant nutrition program. Recommendations should be based on soil and leaf analyses.
- Where overhead systems are in use, avoid scheduling irrigation directly after application.

CAUTION

Do not apply on wet fruit. Application can only take place once the fruit is dry. Do not apply to plants that are undergoing a period of moisture or heat stress, or during cool wet conditions. Do not store mixed product for more than 8 hours. Do NOT mix or apply in combination with calcium containing products. Do not exceed the appropriate application rates.

CAUTION

Use only as directed.

Consult with your distributor, crop adviser or manufacturer should crop specific programs, or any other information be required around the use of this product.

STORAGE & DISPOSAL

Store product in original container. DO NOT store in excessive cold or heat or direct sunlight. DO NOT reuse the container. DO NOT contaminate water, food or feed by storage or disposal. Keep packaging closed, securely fastened and upright. Triple rinse or equivalent and dispose of container in accordance with local, state and federal regulations.

APPLICATION RATES

The rate of application is dependent on the soil fertility and reaction required. For more information on foliar application, see table on application rates. For other modes of application, consult a qualified advisor. Lower rates should be used for maintenance while the higher rates will correct nutritional deficiencies.

MIXING

Agitate MANGANESE-TO-PERFORM™ well before dilution or use. Always mix MANGANESE-TO-PERFORM™ with sufficient quantities of water. Never apply MANGANESE-TO-PERFORM™ undiluted. Follow standard tank mixing procedures. Ensure good agitation throughout application.

COMPATIBILITY

It is advisable to do a miscibility test prior to mixing with any other product and to consult with a qualified advisor or distributor.

DISCLAIMER

The manufacturer, importer and seller make no express or implied warranties, including any warranty of merchantability, fitness for a particular purpose, or suitability. The product is sold "AS-IS". All sales are final. In no event will manufacturer, importer and seller have any liability for any damages, whether direct, incidental, special or consequential arising out of or in connection with any duty with respect to the product, including, but not limited to lost profits, lost sales or injury to persons or property. Manufacturer, importer and seller's liability on any claim of any kind, including but not limited to warranty, negligence, strict liability, and any other cause of action, for any loss or damage arising out of, connected with, or resulting from the performance

or breach of the terms of sale of any goods, or any related services related to sale, delivery, resale, technical direction, inspection, operation or use of any goods or services or part of those goods or services will in no case exceed the purchase price allocable to the goods or services or part of those goods or services that gives rise to the claim. Manufacturer, importer and seller make no representation whatsoever with regard to whether any goods comply with the Occupational Safety and Health Act (OSHA), the Americans with Disabilities Act (ADA), or any other federal, state or local statute, law, ordinance or ruling. Customer, buyer and user assume all responsibility for use of product.

APPLICATION RATES

Crop	Maximum rate per Acre*	Rate per 100 gal Water	Additional Information
Pome and stone	2 pt	1 - 2 pt	Apply early in season. Repeat spray depending on requirements. Do not spray during flowering.
Sub tropical fruit	4 pt	1 - 2 pt	Start first application in the spring and on all new growth in the summer. Two to three applications are recommended depending on requirements.
Citrus	4 pt	1 - 2 pt	Start first application on pre blossom and second application after 100% petal fall.
Grapes	2 pt	1 - 2 pt	First application at 1/8 of an inch of berry size. Second application 10 to 14 days later if necessary. Repeat spray depending on requirements. Do not spray in flower time.
Onions	2 pt	1 gal	Apply 4 weeks after emergence. Repeat as necessary.
Cruciferae	2 pt	1 gal	Apply 3 weeks after planting and repeat twice at 14-day intervals.
Tomatoes and other vegetables	2 pt	1 gal	Apply 3 - 4 weeks after planting or 100% emergence. Repeat as necessary.
Wheat, oats, canola and barley	2 pt	3 - 4 pt	Apply at 2 - 4 leaf stage (for wheat at Feekes growth stages 2 - 5).
Pasture	2 pt	3 - 4 pt	Apply at 2 - 4 leaf stage and later on new growth.
Potatoes	2 pt	1 gal	3 weeks after emergence repeat as necessary.
Corn	2 pt	1 gal	Start application in the early vegetative stages.
Soybeans	2 - 4 pt	2 qt - 1.5 gal	Start application in the early vegetative stages. Repeat sprays if required
Pecan	2 pt	1 - 2 pt	Start first application in the spring and on all new growth in the summer. Two to three applications are recommended depending on requirements.

*Maximum rates depend on crop size.