

Citraplex®  
20% Manganese

For the prevention and correction of Manganese deficiencies in crops  
GUARANTEED ANALYSIS

Manganese (Mn) . . . . . 20%  
20% Water Soluble Manganese

Derived From: Manganese sulfate (citric acid as complexing agent)

ALSO CONTAINS NONPLANT FOOD INGREDIENT  
20% Citric Acid (citric acid as a complexing agent)

Contains: 0.20 lb. of Cu per 1.0 lb. of material

KEEP OUT OF REACH OF CHILDREN



WARNING

Causes eye irritation. Causes skin irritation. May be harmful if swallowed and enters airways.

FIRST AID

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.  
**If on Skin:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.  
**If Swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.  
**If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.

GENERAL INFORMATION

CITRAPLEX 20% MANGANESE is a non-phytotoxic, micronutrient for foliar and soil application. The metal is highly available and absorbed through leaves or root systems. Use stainless steel or acid resistant plastic or fiberglass for mixing equipment.

GENERAL RECOMMENDATIONS

**COMPATIBILITY:** CITRAPLEX 20% MANGANESE is generally compatible with most chemicals used in crop protection. It may be incorporated into existing spray programs. Add micronutrient to water before adding other ingredients. It is always advisable to test for compatibility on a small scale (quart jar) before full scale mixing.  
**FOLIAR APPLICATIONS:** For best absorption into the plant, apply this product in the morning or late evening. For aerial application, use at least 1 gallon of water for every pound of product. This will supply adequate volume for proper distribution. *Consult local extension agent for sensitive crops.*  
**SOIL APPLICATIONS:** CITRAPLEX 20% MANGANESE may be applied to any soil.

APPLICATION RECOMMENDATIONS

CITRAPLEX 20% MANGANESE is recommended for application to the following crops:

Alfalfa	Celery	Lettuce	Peanuts	Soybeans
Almonds	Cherries	Melons	Pecans	Spinach
Apples	Citrus	Milo	Peppers	Strawberries
Apricots	Corn	Mint	Plums	Sugar Beets
Asparagus	Cotton	Nectarines	Pomegranates	Sugar Cane
Avocado	Cranberries	Nursery Stock	Potatoes	Sweet Corn
Barley	Cucumbers	Oats	Pasture & Range grass	Tomatoes
Beans (all)	Figs	Olives	Prunes	Turf Grass
Boysenberries	Garlic	Onions	Rape	Walnuts

Broccoli	Grapes	Peaches	Rice	Watermelons
Brussel Sprouts	Grass	Pears	Safflower	Wheat Carrots
Hops	Peas	Sorghum		

Unless stated differently on crops below, apply 1 to 2 pounds per acre for foliar, or 2 to 4 pounds per acre for soil application within 3 weeks after emergence. Split applications are preferred over a single application. Timing and rates for split applications are 1 to 1-1/2 pounds foliar or 2 to 3 pounds soil applied (banded) within 3 weeks after emergence, and repeat application before bloom.

FRUIT AND NUT CROPS

**ALMONDS:** *Soil:* In early spring, apply 3 to 10 pounds per acre, with pesticide, irrigation water or fertilizer. *Foliage:* Mix 2 to 3 pounds per acre with sufficient water and apply as a thorough cover spray. Repeat at petal fall and cover sprays at 1 to 2 pounds per acre.  
**APPLES AND PEARS:** *Soil:* In early spring, apply 3 to 10 pounds per acre, with pesticide, irrigation water or fertilizer. *Foliage:* Mix 2 to 3 pounds per acre with sufficient water and apply as a thorough cover spray. Repeat at petal fall and cover sprays at 1 to 2 pounds per acre.  
**APRICOTS, NECTARINES, PEACHES, PLUMS AND PRUNES:** *Soil:* In early spring, apply 3 to 10 pounds per acre, with pesticide, irrigation water or fertilizer. *Foliage:* Mix 2 to 3 pounds per acre with sufficient water and apply as a thorough cover spray. Repeat at petal fall and cover sprays at 1 to 2 pounds per acre. **CAUTION:** Do not apply more than 2 pounds per acre to plums or sensitive varieties with cover sprays.  
**CHERRIES:** *Soil:* In early spring, apply 3 to 10 pounds per acre, with pesticide, irrigation water or fertilizer. *Foliage:* Mix 2 to 3 pounds per acre with sufficient water and apply as a thorough cover spray. Repeat at petal fall and cover sprays at 1 to 1-1/2 pounds per acre.  
**CITRUS:** *Soil:* In early spring, apply 3 to 10 pounds per acre, with pesticide, irrigation water or fertilizer. *Foliage:* Mix 3 to 5 pounds per acre with sufficient water and apply during spring and fall growth flush. Repeat during growing season at 1 to 2 pounds per acre, with pesticide cover sprays.  
**GRAPES:** Apply 2 to 4 pounds per acre before bloom as foliage or soil application. Add 1/2 to 1 pound per acre to each pesticide spray. For best results apply 1-1/2 pounds per acre near bud swell and another 1-1/2 pounds per acre when shoots are 4 to 6 inches long.  
**PECANS:** *Soil:* In early spring, apply 3 to 10 pounds per acre with pesticide, irrigation water or fertilizer. *Foliage:* Mix 2 to 3 pounds per acre with sufficient water and apply as a thorough cover spray. Repeat at petal fall and cover spray at 1 to 2 pounds per acre.  
**OTHER FRUIT AND NUT CROPS:** *Soil:* In early spring, apply 3 to 10 pounds per acre with pesticide, irrigation water or fertilizer. *Foliage:* Mix 2 to 3 pounds per acre with sufficient water and apply as a thorough cover spray. Repeat at petal fall and cover sprays at 1 to 2 pounds per acre.

FIELD AND VEGETABLE CROPS

**BEANS:** *Soil:* Apply 3 to 6 pounds per acre with irrigation water, pesticides, or fertilizer before the 4th trifoliate. *Foliage:* Apply 1 to 2 pounds per acre to foliage with sufficient water when beans are between the 2nd and 4th trifoliate stage. Apply 1 to 1-1/2 pounds per acre with normal pesticide spray programs.  
**CORN:** Apply 1 to 2 pounds per acre to the foliage or soil. For best results, split the application as follows: Apply 1 to 1-1/2 pounds per acre to the foliage or soil (band) within 3 weeks of emergence. Apply 1/2 to 1 pound per acre with each pesticide application prior to bloom.  
**COTTON:** Apply 1 to 2 pounds per acre to the foliage or soil. For best results, split the application as follows: Apply 1 to 1-1/2 pounds per acre to the foliage or soil (band) within 3 weeks of emergence. Apply 1/2 to 1 pound per acre with each pesticide application prior to bloom. Early applications are preferable.  
**OKRA:** Apply 1 to 2 pounds per acre to the foliage or soil. For best results, split the application as follows: Apply 1 to 1-1/2 pounds per acre to the foliage or soil (band) within 3 weeks of emergence. Apply 1/2 to 1 pound per acre with each pesticide application prior to bloom. Early applications are preferable.  
**POTATOES:** *Soil:* Apply 1 to 2 pounds per acre at or near planting. *Foliar:* In early spring, apply 1 to 1-1/2 pounds per acre with sufficient water to give complete coverage. Repeat application within 2 to 4 weeks especially where deficiency is known to occur.  
**RICE:** *Foliage:* Apply 2 to 4 pounds per acre in sufficient water to assure thorough coverage. For best results, apply 1 to 1-1/2 pounds with first pesticide application and 1 to 1-1/2 pounds per acre prior to pollination.  
**SMALL GRAINS:** *Soil:* Band, sidedress or broadcast 1 to 4 pounds per acre at planting or within 2 weeks after emergence or when deficiency symptoms first appear. *Foliage:* Apply 1 pound per acre in sufficient water for thorough coverage. Apply within 30 days after planting and before flowering. Split applications are preferred over a single application.  
**SORGHUM:** Apply 1 to 2 pounds per acre to the foliage or soil. For best results, split the application as follows: Apply 1 to 1-1/2 pounds per acre to the foliage or soil (band) within 3 weeks of emergence. Apply 1/2 to 1 pound per acre with each pesticide application prior to bloom. Early applications are preferable.  
**OTHER FIELD AND VEGETABLE CROPS:** Apply 1 to 2 pounds per acre to the foliage or soil. For best results, split the application as follows: Apply 1 to 1-1/2 pounds per acre to the foliage or soil (band) within 3 weeks of emergence. Apply 1/2 to 1 pound per acre with each pesticide application prior to first bloom or subsequent blooms.

TURF AND ORNAMENTALS

Apply to the foliage at 1 to 2 pounds per acre in no less than 50 gallons of water. Apply through drip irrigation systems at 1 to 2 pounds per acre. Do not apply to sensitive ornamentals. If no previous experience prevails, a small test must be conducted prior to application.

STORAGE AND DISPOSAL

**STORAGE:** Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry well-ventilated area, preferably in a locked storage area away from children, feed and food products, and seed. Store at ambient temperatures. Do not contaminate water, food, or feed by storage or disposal. **DISPOSAL:** Do not reuse container. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Do not contaminate water, food, or feed by storage or disposal. **HANDLING:** Avoid breathing fertilizer dusts. Avoid prolonged or repeated skin contact. Avoid eye contact. Wash hands thoroughly after handling this product..

For help with any spill, leak, fire or exposure involving this material, call day or night  
CHEMTREC 1-800-424-9300.

Information regarding the contents and levels of metals in this product is available on the internet at  
<http://www.regulatory-info-lpi.com/>

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary. LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when the product is used in accordance with such Directions for Use under normal conditions of use. LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

CITRAPLEX® IS A REGISTERED TRADEMARK OF LOVELAND PRODUCTS, INC.

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WARNING

This product can expose you to chemicals including nickel, which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



Guaranteed by:  
**LOVELAND PRODUCTS, INC.**  
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NET WEIGHT: 25 POUNDS (11.35 Kg)