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SPECIMEN

# Sequestrene<sup>®</sup> 138 Fe

## IRON CHELATE\* MICRONUTRIENT

- For correction of iron deficiencies in certain crops grown in acidic, alkaline and calcareous soils.

**2-0-0**

### Guaranteed analysis:

|                           |    |
|---------------------------|----|
| Total Nitrogen (N).....   | 2% |
| 2% Water Soluble Nitrogen |    |
| Iron (Fe)*.....           | 6% |
| 6% Chelated Iron (Fe)     |    |

\*Derived from: Iron EDDHA

**FOR PROFESSIONAL USE ONLY**  
**Keep Out of Reach of Children**

This product does not require a hazard warning in accordance with GHS criteria.

**Net Contents:**

BASF Corporation  
26 Davis Drive, Research Triangle Park, NC 27709

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## Product Information

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**Sequestrene® 138 Fe** Iron Chelate is a source of iron in a form readily available to plants. It can be applied as a soil application or as a foliar spray. **Sequestrene 138 Fe** is effective over a wide pH range, including soils where pH is 7.0 and above. Rates of application depend upon severity of deficiency but should be kept within the recommended range for each crop.

To be absorbed from the soil, the **Sequestrene 138 Fe** must get into the root zone. The chelate can be placed in the root zone during planting or it can be moved into the soil by rainfall, irrigation, or tillage.

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

**Wisconsin Users:** Iron deficiency has rarely been observed on field or vegetable crops in Wisconsin, except that iron chlorosis has occasionally been observed on soybeans grown on alkaline soils (pH above 7.0). Do not use this product on any crop listed on this label unless an iron deficiency has been confirmed by plant analysis or visual deficiency symptoms. For further information on confirming iron deficiencies, contact University of Wisconsin Extension personnel.

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## Directions For Use

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Soil applications of **Sequestrene 138 Fe** can be made as a drench, injected directly into the soil, or banded. For row crops, soil applications are most effective when made in a band placed in the soil at planting time, or as a side dressing shortly after plants emerge or after transplanting. **Sequestrene 138 Fe** can be applied alone or in combination with dry or liquid fertilizers. When treating soil around trees, apply within the drip line, and lightly incorporate into the soil or water in. **Sequestrene 138 Fe** can be used at any time, but application in the spring or around planting time is preferred because: (1) spring rains will move **Sequestrene 138 Fe** into root zone, and (2) iron will be available during the early flush of plant growth. Injection into the irrigation water provides a good after-planting method of application.

Foliar spray applications in water should be made as thorough cover sprays, carefully following the **Directions For Use**. Adding a small amount of wetting agent or detergent to the solution may be helpful to insure even distribution on the leaf surfaces and increase the effectiveness of foliar applications. **Sequestrene 138 Fe** is compatible with most commonly used insecticides and fungicides and can be applied in combination with them. However, because available pesticide combinations differ so widely, before applying chelate-pesticide combinations to large crop areas, a small test area

should be sprayed to determine that no phytotoxicity or undesirable effects result from the combination spray. To facilitate mixing of the product into solution it is suggested that the required amount be added to a small amount of water and mixed until completely dissolved. The pre-mix solution can then be added, using agitation, to the final water or liquid fertilizer solution.

### FRUIT AND NUT CROPS (IN ORCHARDS AND GROVES)

#### **Almonds, Apples, Apricots, Cherries, Nectarines, Pecans, Plums, Prunes, and Walnuts**

**Foliage:** Mix 1 to 1.5 lbs per 100 gals of water and apply as a thorough cover spray prior to bloom or after harvest. To avoid possible injury to plants, do not use in combination with oils.

#### **Apples, Apricots, Avocados, Cherries, Macadamias, Nectarines, Pears, Peaches, Plums, Prunes, and Walnuts**

**Soil:** Apply ½ to 2 oz per tree for each inch of trunk diameter, but do not apply more than 1 lb per tree. Apply annually in the spring, either prior to or at the time of new spring growth.

#### **Peaches and Pears**

**Foliage:** Mix 1 to 3 lbs per 100 gals of water and apply as a thorough cover spray about 4 to 6 weeks after full bloom. If deficiency is severe, apply 1 or 2 additional sprays at 2- to 3-week intervals. To avoid possible injury to plants do not use in combination with oils.

#### **Citrus**

**Foliage:** Mix 1 lb per 100 gals of water and apply as a thorough cover spray any time after the harvest of the main crop and up until bloom of the succeeding main crop. Do not apply when the main crop is on the tree. To avoid possible injury to plants, do not use in combination with oils or miticides.

**Soil:** For nursery stock, apply ⅓ to ½ lb per 300 ft<sup>2</sup>. For mature trees, apply ⅓ to ½ lb per tree in light sandy soils and ½ to 1 lb per tree in heavy soils. Broadcast evenly within the drip line prior to the winter flush of growth. For an annual maintenance program, apply ¼ to ⅓ lb per tree.

#### **Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries, and Strawberries**

**Soil:** Band or side dress ½ to 1 lb per 100 ft of row in early spring or when deficiency symptoms first appear.

#### **Grapes**

**Foliage:** Mix 1.5 lbs per 100 gals of water and apply as a thorough cover spray.

**Soil:** Band or side dress ½ to 1 lb per 100 ft of row. **Sequestrene 138 Fe** may also be applied in irrigation water. For an annual preventive program, apply ¼ lb per plant.

## FIELD CROPS

### **Alfalfa and Forage Grasses**

**Soil:** Apply up to 5 lbs per acre at planting or when deficiency symptoms first appear.

### **Cotton, Cowpeas, Field Peas, Rice, Safflower, Sugar Beets, and Sugarcane**

**Foliage:** Apply 1.5 lbs per acre in sufficient water for thorough coverage. Apply 4 to 6 weeks after planting or when deficiency symptoms first appear. Repeat in 2 to 3 weeks if necessary.

**Soil:** Apply up to 5 lbs per acre at planting or when deficiency symptoms first appear.

### **Corn, Peanuts, and Sorghum**

**Soil:** Band or side dress up to 5 lbs per acre at planting or when deficiency symptoms first appear.

### **Flax**

**Soil:** Apply up to 10 lbs per acre at planting or within a few weeks after planting.

### **Corn, Flax, Peanuts and Sorghum**

**Foliage:** Apply 1.5 lbs per acre in sufficient water for thorough coverage. Apply 4 to 6 weeks after planting or when deficiency symptoms first appear. Repeat in 2 to 3 weeks if necessary.

### **Soybeans**

**Foliage:** Apply 2 to 2.5 lbs per acre in a band over the soybean plants with sufficient water for thorough coverage. Apply within 3 to 7 days after chlorotic symptoms develop or when the beans are growing into the second trifoliate stage. Applications later than the second trifoliate stage will not be as effective.

## VEGETABLE CROPS

### **Beans, Corn, Mustard, and Spinach**

**Soil:** Band or side dress up to 5 lbs per acre at planting or when deficiency symptoms first appear.

### **Black-eyed Peas, Carrots, Cucumbers, Eggplants, Melons, Onions, Parsnips, Peas, Peppers, Potatoes, Radishes, Squash, Tomatoes, and Turnips**

**Foliage:** Apply 1.5 lbs per acre in sufficient water for thorough coverage. Apply 4 to 6 weeks after planting or when deficiency symptoms first appear. Repeat in 2 to 3 weeks if necessary. Apply to cucumbers, eggplants, melons, peppers, squash, and tomatoes prior to bloom.

**Soil:** Band or side dress up to 5 lbs per acre at planting or when deficiency symptoms first appear.

### **Cabbage, Cauliflower, Celery, and Lettuce**

**Soil:** Band or side dress up to 5 lbs per acre at planting or when deficiency symptoms first appear.

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## Storage and Disposal

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**Storage and Handling:** Segregate from foods and animal feeds. Keep only the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. Protect from temperatures below 0°C (32°F) or above 45°C (113°F). Changes in the properties of the product may occur if substance/product is stored outside of the indicated temperature window for extended periods of time.

**Waste Disposal of Substance:** Must be disposed of or incinerated in accordance with local regulations.

**Container Disposal:** Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

**Accidental Release Measures:** Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. For small amounts: Contain with dust binding material and dispose of. For large amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

### **State Right To Know Description and CAS # / TSNR**

Polyethoxylate / TSNR 161090809-5127

### **EMERGENCY CONTACT:**

**CHEMTREC 1-800-424-9300**

**BASF Corporation 1-800-832-HELP (4357)**

## Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer. BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.** BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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Guaranteed by:  
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