IRON CHELATE
(CHELATING AGENT-EDTA)

A chelate for use only on agricultural and horticultural crops, ornamentals, alpines, pot plants, herbaceous flowers and calcifuge plants to remedy iron deficiency. Can also be used in the manufacture of soluble and liquid fertilizers.

GUARANTEED ANALYSIS

| Iron (Fe) | % | 13.2% | Chelated Iron (Fe) | Derived from: Iron EDTA (ethylenediaminetetraacetic acid). |

FOR TREATMENT OF SOILS AND CROPS WHERE IRON DEFICIENCY IS DIAGNOSED OR SUSPECTED.

To improve absorption and effectiveness, add Nu Film 17 to all foliar applied sprays. Miller Iron Chelate is particularly suitable for foliar application, inclusion in liquid feeds and hydromonic mixes and for soil application where the pH does not exceed 6.5, i.e. acid soils.

For highly alkaline soils Miller's Ferrifus is recommended.

MIXING

Miller Iron Chelate is soluble in water. Add the weighed amount of the powder, slowly, to the bulk of the water and stir until dissolved.

SYMPTOMS OF IRON DEFICIENCY

Iron deficiency shows up as chlorosis (a reduction in the green color of the leaves) early in the season, starting with the youngest leaves. Leaf chlorosis may vary in severity from a pale green to yellow or white. There may be interveinal chlorosis, where the leaf veins stand out in darker green as an intermediate stage between slight and severe symptoms. The deficiency is often referred to as lime induced chlorosis.

On fruit trees and ornamentals leaf symptoms of severe deficiency may be followed by dieback of shoots and the eventual death of the tree.

DIAGNOSING IRON DEFICIENCY

The simplest way is to look for the typical foliage symptoms of the deficiency. Iron is present in most soils, in quantity, but is often made unavailable to plants by a number of conditions. Soil analysis is of no value in respect to total iron content, but the other information from a full analysis such as available iron, can often help to forecast the probability of iron deficiency. Tissue analysis can often give a more rapid indication of deficiency.

The availability of iron can be reduced by high chalk or lime content in the soil, high pH, high phosphate, high levels of copper, manganese, zinc and nickel, bicarbonate ions in the soil or irrigation water, potash deficiency, poor drainage and extremes of temperature and moisture.

The deficiency is most common on soils derived from the chalk, limestone or magnesium limestone, on marls and poorly drained clays and on soils that have been overlimed and heavily dressed with superphosphates. These conditions may also induce manganese and occasionally magnesium and zinc deficiencies in combination with iron deficiency. Individualizations of these deficiencies may arise to confusing foliage symptoms.

Repeated soil applications of Miller Iron Chelate usually alleviate the symptoms in the first year or two, but sometimes the chlorosis returns, especially in older leaves. This is usually induced manganese deficiency, as a consequence of upsetting the balance between iron and manganese in the soil.

If this occurs it is advisable to apply a manganese chelate such as Miller Manganese Chelate in combination with Miller Iron Chelate in the ratio of one part Manganese Chelate to two parts Iron Chelate. Iron deficiency can also occur on acid sandy soils, especially if high in copper, manganese, molybdenum, nickel and zinc. The excessive use of sewage sludge high in these elements can induce iron deficiency. The use of Miller Iron Chelate can alleviate some of the effects of other heavy metal toxicity.

APPLICATION RATES OF MILLER IRON CHELATE

1. Field Crops - foliar application

   Rate: 4 lbs. per acre (4 kg. per hectare)
   Apply in a suitable volume of water, by sprayer and cultivate into the soil immediately after spraying. If spraying is not possible, Miller Iron Chelate may be diluted with sand or fertilizer and spread evenly by hand or fertilizer spreader.

2. Field Crops - foliar application

   Spray with up to 1 lb./acre (4.5 kg./hectare) of Miller Iron Chelate plus 2 to 3 lbs./acre (2 to 3 kg./hectare) Miller Nutri-Leaf or another suitable foliar feeding aid. Miller Iron Chelate is compatible with many pesticide sprays but if mixed with pesticides then omit the urea and only use a low rate of Miller Nutri-Leaf (2 to 3 lbs. per acre). Absorption is greatest when foliar spraying is done during early morning or late evening.

3. Soil Application to Fruit and Nut Trees, Bushes and Vines

   Apples, pears, apricots, cherries, peaches, nectarines, plums, grapes, citrus, almonds, walnuts, pistachios, pecans, avocado, mango, papaya, blackcurrants, blueberries, gooseberries, raspberries, blackberries, pineapples and redcurrants: Apply the chosen rate of Miller Iron Chelate, taken from the following table, evenly to the whole area beneath the branch spread of the trees or bushes, in a suitable volume of water, by tree sprayer, injector or watering can and wash down to the root zone by flooding, hosing or irrigation. Rooted - the best time for application is towards the end of the irrigation season, but early enough to allow the winter rains to wash the Miller Iron Chelate down to the roots.

   In areas where flooding or irrigation is practiced as soon as growth starts then apply Miller Iron Chelate before flooding or irrigation.

   In yellowing areas where flooding or irrigation is practiced as soon as growth starts then apply Miller Iron Chelate before flooding or irrigation.

   Rate per tree or bush

| Fruit bushes | 1 Tbsp. - 1/4 Oz. - (10 Gm) | 2 Tbsp. - 1/2 Oz. - (20 Gm) |
| Small fruit trees | 2 Tbsp. - 1/2 Oz. - (20 Gm) | 4 Tbsp. - 1 Tbsp. - (40 Gm) |
| Medium fruit trees | 3 Tbsp. - 1/3 Oz. - (40 Gm) | 7 Tbsp. - 2 1/2 Oz. - (80 Gm) |
| Large fruit trees | 10 Tbsp. - 3/4 Oz. - (100 Gm) | 18 Tbsp. - 6 5/8 Oz. - (200 Gm) |

<table>
<thead>
<tr>
<th>Slight Deficiency</th>
<th>Severe Deficiency</th>
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<tbody>
<tr>
<td>Shrub</td>
<td>1 Tbsp. - 1/4 Oz. - (10 Gm)</td>
</tr>
<tr>
<td>Roses and Container grown nursery stock</td>
<td>1 Tbsp. - 1/4 Oz. - (10 Gm)</td>
</tr>
<tr>
<td>Azalea, camellias, magnolias and rhododendrons</td>
<td>1 Tbsp. - 1/4 Oz. - (10 Gm)</td>
</tr>
<tr>
<td>Annual and perennial flowers</td>
<td>1/2 tsp. - 1/2 Oz. - (5 Gm)</td>
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NOTICE OF WARRANTY: Miller warrants that this product conforms to the chemical specification on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, effectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Miller. In no case shall Miller be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. MILLER MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

Information concerning the raw materials composing this product can be obtained by writing to Miller Chemical & Fert., LLC, P.O. Box 333, Hanover, PA 17331, USA. Please refer to the product/batch number found on this container.

Prod. No. 21861

KEEP OUT OF REACH OF CHILDREN

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Manufactured For
MILLER CHEMICAL & FERTILIZER, LLC
P.O. Box 333
Hanover, Pennsylvania 17331, USA

Net Weight 55 lb (24.95 kg)