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SPECIMEN

Sprint® 330

IRON CHELATE* MICRONUTRIENT

- For correction of iron deficiency in slightly acid to slightly alkaline soils.
- For use in nurseries, gardens, landscape plantings and turf.

7-0-0

Guaranteed analysis:

Total Nitrogen (N)..... 7%
8% Water Soluble Nitrogen
Iron (Fe)*..... 10%
10% Chelated Iron (Fe)
*Derived from: Iron DTPA
Moisture content not more that 7%

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

Product Information

Sprint® 330 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 to correct iron deficiencies. As a soil application, **Sprint 330** generally performs best where the pH is 6.0-7.5. Rates of application depend upon the severity of deficiency, but should be kept within the recommended range for each specific use. Unless specified differently, best results will be obtained when applications are made early in the plant growth cycle.

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.

Turfgrass, pin oak trees, and some ornamentals such as yews do show iron deficiency on soil with very high pH (>7.5). This deficiency can be corrected by spraying the foliage with iron compounds such as ferrous sulfate or iron chelates or by decreasing soil pH.

Directions For Use

Soil application: To be effective as a soil application, **Sprint 330** must get into the root zone. It can be incorporated in the root zone during application or it can be moved into the root zone by rainfall or irrigation. **Sprint 330** can be applied as a drench, injected directly into the soil or banded. For plants grown in rows, soil applications are most effective when made as a band placed in the soil at planting time, or as a sidedressing shortly after plants emerge or after transplanting. **Sprint 330** can be applied alone or in combination with dry or liquid fertilizers. To obtain uniform distribution, it can be mixed with inert materials such as sand or dry soil and uniformly distributed over the soil surface around the plants. When applied to the soil around trees, apply within the drip line and slightly incorporate into the soil or water in. **Sprint 330** can be used at any time, but application in the spring or near planting time is preferred because: (1) spring rains will move it into the root zone, and (2) iron will be available during the early flush of growth. Injection into the irrigation water provides a good after-planting method of application.

Foliar Application: Applications in water should be made as thorough cover sprays following the directions given below. Addition of up to 0.5% wetting agent (1 pt / 25 gals) to the solution may help insure uniform distribution. **Sprint 330** is compatible with most pesticides and fertilizers. However, because of the large number of pesticides registered for pest control and the large number of fertilizers, a small test area should be sprayed to determine that no phytotoxicity or undesirable effects result from the combination with methyl parathion. To facilitate mixing, it is suggested that the required amount of **Sprint 330** be added to a small amount of water and mixed until completely dissolved. The premix solution can then be added, using agitation, to the final water or liquid fertilizer solution.

Applications and Rates

Turfgrass (including bluegrass, bentgrass, fescues, ryegrass, St. Augustine grass, zoysiagrass, bermuda-grasses, including hybrid and dwarf varieties, etc.)
Soil Application: Incorporate up to 1 lb/1,000 ft^2 in sufficient carrier to get uniform coverage and water in thoroughly.
Foliar Application: To general turf, apply 2-4 oz/1,000 ft^2 in sufficient carrier to get uniform coverage. On golf greens, apply 1-4 oz/1,000 ft^2 in sufficient carrier to get uniform coverage. Allow at least 30 days between applications at higher rates.
Note: The addition of 0.1 lb of ammoniacal N per 1,000 ft^2 can enhance iron uptake in foliar applications.

Ground Cover (Dichondra, Ivy Pachysandra, etc.)
Apply 1lb/1,000 ft^2 either alone or in combination with fertilizer in sufficient carrier to get uniform coverage. Follow with a thorough watering.

Roses and Flowering Shrubs (Azalea, Camellia, Cherry Laurels, Bottle Brush, Gardenia, Hibiscus, Hydrangea, Ixora, Ligustrum, Lilac, Liquid Amber, Pieris japonica, Primrose, Pyracantha, Rhododendron, Tea Roses, and similar plants)
Foliar Application: Mix 1 lb/100 gals of water (1-1½ level tsp per gal) and apply as a thorough spray.
Soil Application: Where plants are grown close together in beds or rows, apply 2-4 oz (6-12 tbsp) per 100 sq. ft. as a broadcast application and water in thoroughly.
Individual Plants: Apply 1 tsp per plant for plants up to 2 ft in height; 2 tsp per plant for plants 2-3 ft in height; 3 tsp per plant for plants 4-8 ft in height. Treat the soil under the canopy of the plants. For plants in containers, apply ¼ tsp

per 8-inch pot, or ½ tsp per 12-inch pot. Water in thoroughly.
Greenhouse Application: Inject through fertilizer system at 1:100 pump setting; slurry **Sprint® 330** concentrate at 1 lb. per gallon.

Flowers (Chrysanthemums, Carnations, Gladiolus, Peonies, Petunias, Snapdragons, Zinnias, and similar herbaceous plants)
Foliar Application: Mix ½ lb/100 gals of water (½-¾ tsp per gal.) and apply to the point of runoff.
Soil Applications: Apply 1-2 oz (3-6 tbsp) per 100 ft^2. as a broadcast application and water in thoroughly.
Individual Plants: Apply ½ tsp per plant. Apply **Sprint 330** to the soil around the plants.
Container Plants: Apply $^1/_8$ tsp per 8-inch pot, or ¼ tsp per 12-inch pot.
Greenhouse Applications: Inject through fertilizer system at 1:100 pump setting; slurry **Sprint 330** concentrate at 4 - 8 oz per gallon.

Evergreens and Leafy Shrubs (Arborvitae, Boxwood, Euonymus, Holly, Juniper, Laurel, Privet, Spruce, Taxus, Yew, etc.)
Foliar Application: Mix 1 lb/100 gals of water (1 ½ level tsp per gal) and apply to the point of runoff.
Soil Application: Apply 2-4 oz (6-12 tbsp) per 100 ft^2 as a broadcast application and water in thoroughly.
Individual Plants: Apply 1 tsp per plant for plants up to 2 ft in height; 2 tsp per plant for plants 2-4 ft in height; 3 tsp per plant for plants 4-8 ft in height. Treat the soil under the canopy of the plants.
Container Plants: Apply ¼ tsp per 8-inch pot, or ½ tsp per 12-inch pot. For greenhouse applications, inject through fertilizer system at 1:100 pump setting; slurry **Sprint 330** concentrate at 1 lb per gallon.

Shade Trees, Fruit Trees and Nuts (Apple, Apricot, Avocado, Ash, Camphor, Cherry, Dogwood, Elm, Magnolia, Maple, Mimosa, Citrus, Peach, Pear, Pecan, Pin Oak, Plum, Prune, Russian Olive, Sandcherry, Sycamore, Walnut, and other shade trees, fruit trees and nuts)
Foliar Application: Mix 1lb/100 gals of water (1½ level tsp per gal) and apply to the point of runoff. On bearing trees, make the application prior to bloom or after harvest. Do not tank mix **Sprint 330** with crop oils, or injury may result.
Soil Application: Apply 3 - 6 tbsp. per inch of trunk diameter at chest height. Apply uniformly under the canopy of the trees and follow with thorough watering.
Container Plants: Apply ¼ tsp per 8-inch pot, or ½ tsp per 12-inch pot.

Citrus
Foliar Applications: Mix 1 lb/100 gals of water and apply as a thorough cover spray any time after 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. May be applied in irrigation water.
Soil Applications: Apply 1-2 lbs per tree alone or in combination with fertilizer. **Sprint 330** may also be applied in irrigation water.
Tree Applications: Apply ¼ lb per tree on an annual preventative program.

Small Fruits (Blackberries, Blueberries, Boysenberries, Dewberries, Grapes, Loganberries, Raspberries, Strawberries, etc.)
Soil Application as a Band or Sidedress: Apply ½ to 1 lb/100 ft of row early in the spring or when deficiency symptoms first appear.
Container Plants: Apply ¼ tsp per 8-inch pot, or ½ tsp per 12-inch pot. Follow with thorough watering.

VEGETABLES
Beans and Black-eyed Peas
For soil applications, apply 3 $^2/_3$ to 7 $^1/_3$ oz / 1,000 ft^2 (10 to 20 lbs /acre) as a band or side dress application at planting, or when deficiency symptoms first appear.

Cabbage, Cauliflower, Celery and Lettuce
For soil applications, apply up to 3 $^2/_3$ oz. /1,000 ft^2 (10 lbs /acre) as a band or side dress application at planting, or when deficiency symptoms first appear.

Carrots, Corn, Cucumbers, Eggplants, Melons, Mustard, Onions, Parsnips, Peas, Peppers, Potatoes, Radishes, Spinach, Squash, Tomatoes and Turnips
Foliar Applications: Apply $^1/_3$ oz/1,000 ft^2 (1 lb/acre) in sufficient water for thorough coverage. Apply 4-6 weeks after planting or when deficiency symptoms first appear. Repeat in 2-3 weeks if necessary.
For soil applications, apply up to 3 $^2/_3$ oz/1,000 ft^2 (10 lbs /acre) as a band or side dress application at planting or when deficiency symptoms first appear.

Note: Soil applications are suggested for corn, mustard, and spinach.

Greenhouse and Nursery Specialized Applications

Parts per million (PPM) actual Fe	Drench Rate Guidelines For drenches, mix Rate amount in 100 gals. (375 L) of water volume				Irrigation Injection Rate Guidelines	
	Sprint® 330 10% DTPA Chelated Iron		Sprint® 138 6% EDDHA Chelated Iron (5.2% ortho ortho)		Concentrate Stock Solution (gal.)	Injector Pump Setting
	Rate (oz.)	Rate (grams)	Rate (oz.)	Rate (grams)		
15	2.0	56.70	3.3	93.56	1	1:100
20	2.7	76.55	4.5	127.58	1	1:100
30	4.0	113.40	6.7	189.95	1	1:100
40	5.4	153.09	9.0	255.15	1	1:100
60	8.0	226.80	13.4	379.89	1	1:100
80	10.8	306.18	18.0	510.30	1	1:100
100	13.5	382.73	22.5	637.88	1	1:100

For mild chlorosis – Drench plants with **Sprint 330** or **Sprint 138** beginning at 5 oz per 100 gals (141.75 g per 375 L)
For severe chlorosis – Drench plants with **Sprint 330** or **Sprint 138** beginning at 5-8 oz per 100 gals (141.75-226.8 g per 375 L), and repeat 14 days later with 5-8 oz per 100 gals (141.75-226.8 g per 375 L).
Conversion: 3 tsp = 1 Tbs, 3 Tbs = 1 oz

Storage and Disposal

Storage and Handling: Segregate from foods and animal feeds. Keep away from heat. Protect against moisture. Protect from direct sunlight. Store protected against freezing. Protect from temperatures below: 5 °C (41 °F). Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time. Protect from temperatures above: 25 °C (77 °F). Changes in the properties of the product may occur if substance/product is stored above indicated temperature 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. Avoid raising dust.

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

State Right To Know Description and CAS # / TSRN
Proprietary Metal Salt / TSRN 161090809-5027;
Polyethoxylate / TSRN 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:
BASF Corporation
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