

SOYGREEN® · AST

Liquid Ortho-Ortho EDDHA Chelated Iron Solution

Guaranteed Analysis:

Iron (Fe).....1.8%
1.8% Chelated Iron (Fe)*
Derived from: Iron EDDHA

*85% chelated iron as ortho-ortho EDDHA and
15% chelated iron as ortho-para EDDHA

Soygreen® AST is the most convenient and effective product solution for iron deficiency chlorosis. Soygreen® AST not only contains iron chelated with ortho-ortho EDDHA but it is formulated to minimize leaching of the chelated iron from the root zone. Soygreen AST should improve the availability of iron to field crops. The target crop for Soygreen AST is soybeans grown in areas with a history of iron deficiency chlorosis. Additionally, field crops such as sugarbeets, sorghum and legume crops have benefited from applications of Soygreen AST. Other crops may benefit from Soygreen AST applications when uptake of iron is a limiting factor. Soygreen AST is a dark red liquid that will temporarily discolor everything that it comes in contact with a red color. This will readily wash off with high volumes of water.

RECOMMENDATION FOR USE IN SOYBEANS

Soygreen AST is intended to be part of a complete management package for reducing iron deficiency chlorosis in soybeans. Soygreen AST is to be used in combination with resistant varieties. Soygreen AST is recommended as an in-furrow soil or foliar applied fertilizer in Soybeans.

In-Furrow applications at 2.67-4 qt/A have proven to be the most effective application type to alleviate and/or correct iron deficiency chlorosis.

In-Furrow Application: Mix 1.33-5.34 qt/A of product in water and apply in-furrow application at 2-10 gallons of total solution per acre. Higher water volumes in the rate range allow for easier mixing and complete dispersion of the product. The rate may vary depending on crop, soil conditions and environment. Higher rates may be necessary for specific crops and specific regions as recommended by a competent agricultural authority.

Foliar Application: Apply 1.33-2.67 qt/A prior to or immediately after deficiency symptoms occur to prevent or alleviate losses from iron deficiencies. 4 pt/A is the most commonly used rate. Spray carrier (water) volumes of 10 to 20 gallons per acre (ground) or 5 gallons per

acre (air) are recommended for best results. When deficiency symptoms are severe, a repeat application of 1.33-2.67 qt /A may be needed 2 or more weeks following the initial application. Applications need to be made as soon as, or prior to, iron deficiency chlorosis symptomatology appears.

Note: A number of variables influence the rate of application necessary to control or correct iron deficiency and the potential efficacy of these treatments. Various environmental factors will increase or decrease the effectiveness of these treatments. For best results, follow good agronomic practices, soil test, use tissue analysis and consult with a competent agronomist when using this product.

RECOMMENDATION FOR USE IN SUGARBEETS

In-Furrow Application: Mix 1.33 qt/A of product in water and apply in-furrow at 2-10 gallon of total solution per acre. Higher water volumes in the rate range allow for easier mixing and complete dispersion of the product. Soygreen AST at 1.33 qt/A applied in-furrow has been proven in university and private trials to provide a better starter response than 10-34-0 or no starter in sugarbeets. There has not been any research to show an advantage of increasing the rate above 1.33 qt/A.

GENERAL RECOMMENDATION FOR USE IN OTHER CROPS

Soygreen AST is recommended as an in-furrow soil or foliar applied fertilizer for use on any food or fiber crop where the addition of iron would be beneficial.

In-Furrow Application: Mix 1.33-4 qt/A of product in water and apply in-furrow at 2-10 gallon of total solution per acre. Higher water volumes in the rate range allow for easier mixing and complete dispersion of the product.

Foliar Application: Apply 1.33-4 qt/A prior to or immediately after deficiency symptoms occur to prevent or alleviate losses from iron deficiencies. Spray carrier (water) volumes of 10 to 20 gallons per acre (ground) or 5 gallons per acre (air) are recommended for best results. Repeat applications may be necessary.

MIXING PROCEDURE

Soygreen AST mixes readily with water but some form of agitation is recommended to allow for complete and uniform dispersal in the liquid solution. If adding directly to a tank without agitation, add the product extremely slow to the water tank to allow complete

dispersal into solution. Although some mixing with liquid fertilizers has been successful, results have been mixed and incompatible solutions have resulted. Always conduct a jar test prior to mixing with any other fertilizer. Additionally, nitrogen fertilizers used in-furrow may hinder the uptake of iron by soybeans. Therefore, best results are obtained when mixing only with water.

MIXING INSTRUCTIONS WHEN TANK MIXING WITH FOLIAR PESTICIDES:

1. Check pesticide compatibility with Soygreen AST by conducting a jar test or consulting with someone who has previously mixed Soygreen AST with all pesticides in question.
2. Start with a clean spray tank.
3. Fill the spray tank 1/3-1/2 full of water.
4. While continuing to fill with water add Soygreen AST at recommended rate
5. Add a water conditioning product such as Jackhammer™ or Ammonium Sulfate
6. Add the pesticide or pesticides in the order recommended on the pesticide label
7. Fill remainder of tank and agitate

NOTE: All micronutrient additives have the potential to cause antagonism of glyphosate herbicides. A quality water conditioner such as Jackhammer™ or Ammonium Sulfate is recommended to help alleviate antagonism. The potential for loss of weed control is diminished when applications are made to weeds that are less than 2" in height when tank mixing with glyphosate.

STORAGE AND DISPOSAL

Storage: Store in a cool, dry place. Store in original container only. Do not add anything to the container. Keep container tightly sealed when not in use. Do not store near fire, flame or other potential sources of ignition. Do not contaminate water, food or feed by storage or disposal of this product. Store above 32 degrees, do not allow to freeze.

Disposal: Do not reuse empty container. Triple rinse (or equivalent) during mixing and loading. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at www.acrcycle.org. Decontaminated containers and materials must be disposed of in a

manner allowed by local, state and federal laws and regulations.

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

Rate Comparison for Soygreen® and Soygreen® AST

1 gallon of Soygreen® AST contains 3 lb of Soygreen®

Soygreen®	Soygreen® AST
1 lb	1.33 qt
1.5 lb	2 qt
2 lb	2.67 qt
2.5 lb	3.34 qt
3 lb	4 qt (1 gallon)
4 lb	5.34 qt

Conditions of Sale and Warranty Limitation: 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 should be followed carefully. However, it is impossible to eliminate all risks inherently associated with 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 CHS Inc. or the seller. All such risks shall be assumed by the buyer. CHS Inc. 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. CHS Inc. makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty. In no case shall CHS Inc. or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. CHS Inc. and the seller offer this product, and the Buyer and the 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 CHS Inc.

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NET CONTENTS: 250 GALLONS (946 L)

DENSITY: 9.85 lbs/gal at 68 deg. F

NET WEIGHT: 2,462.5 lbs at 68 deg. F