GLUCCO Zn

CHARACTERISTICS

GLUCCO Zn is a Zn fertilizers solution complexed with hepta-gluconic acid. Once applied, either into the soil, hydroponics or foliar, product is readily assimilated by plants, and Zn ion it moves free into floem.

Zn (Zinc) in GLUCCO Zn is chelated by gluconic acid in a ferric ammonium salt, assimilable and usable form by the plant, both foliar and root application. This provides to the product a high solubility.

WHAT IS Zn IMPORTANT FOR?

GLUCCO Zn is a key constituent of many enzymes and proteins. It plays an important role in a wide range of processes, such as growth hormone production and internode elongation. Zinc deficiency is probably the most common micronutrient deficiency in crops worldwide, resulting in substantial losses in crop yields and human nutritional health problems.

Deficiency in Zinc might result in significant reduction in crop yields and quality. In fact, yield can even be reduced by over 20% before any visual symptoms of deficiency occur.

Symptoms of Zinc deficiency include one or some of the following:
- stunting - reduced height
- interveinal chlorosis
- Brown spots on upper leaves
- Distorted leaves

COMPOSITION

%w/v

- Zinc (Zn) 5.0
- pH 6-7
- Density: 1.27
Natural Chelating Agent (Hepta-Gluconic Acid)

FOLIAR APPLICATION

Crop | Recommendation | Time
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In all crops | 1-3 L/Ha (with foliar fertilizer in at least 200L of water. Upon application with backpack sprayer 0.25 - 0.5%) | When required
Cereals | 2L /Ha (recommendation for winter cereals) | In autumn from the 3 - leaf stage
Legumes (only included) | 2-3 times, 2-3L/ha | From 6 leaf stage
Maize | 2 - 3L /Ha | From 4 leaf stage
Apples and Pears | 3L | 2 applications, one early season and again after harvest in a minimum of 500L. Apply in 500 to 2000L water per ha.
Beans, groundnuts, peas, soybeans | 2L | One to two applications early in 2000L water per hectare.
Brassicae (cabbage, etc.) | 2L | Apply at the first signs of a deficiency and repeat 3 to 4 weeks later if necessary. Apply in 500L water per hectare.
Citrus | 3L | Apply as a full cover spray in spring to all new growth. Two to three applications. Do not spray directly before or during harvest. Apply in 2000L water per hectare.
Cotton | 2L | Do first application early in the season and repeat the application if required. Apply in 500L water per hectare.
Cucurbits (Pumkins, etc.) | 2L | Apply at the first signs of a deficiency and repeat 3 to 4 weeks later if necessary. Apply in 500L water per hectare.
Lettuce | 2L | One to two application early in the growing season. Apply in 500L water per hectare.
Solanaceae (peppers, etc.) | 2L | Apply at the first signs of a deficiency and repeat 3 to 4 weeks later if necessary. Apply in 500L water per hectare.
Solanaceae (peppers, etc.) | 2L | Apply very early in the season and then again after harvest. Apply in 500L water per hectare.

SCHEMATIC DIAGRAM OF THE CAUSES OF ZINC DEFICIENCY IN CROPS

Low total Zinc content in soil (e.g. sandy soils)
Low manure application
Zinc inefficient crop varieties
High soil organic matter content (e.g. histosols)
Waterlogging/flooding of soil (e.g. rice paddy)
High Soil pH (e.g. calcareous soils, heavily limed soils)
High Phosphate applications
High salt concentrations (salinity)

Cautions

Glucuco Zn is compatible with most agricultural remedies. It is however advisable to do a miscibility test prior to mixing with other chemicals. Do not mix Glucuco Zn with highly alkaline material such as LIME SULPHUR and BORDEAUX mixture, or with any phosphate-containing fertilizers.