CCS NUTRIENTS
COASTAL CHELATED SOLUTIONS

The Coastal Chelated Solutions (CCS) family of products are 100% fully chelated, clean, liquid nutrient solutions designed for use in both soil and foliar applications. These products are designed to give growers the right tools to effectively manage the overall fertility level of their crop from start to finish. **CCS** products promote crop health and proper fertility in high level crop management programs and in programs designed to enhance yield and quality. All **CCS** products are 100% water soluble.

CCS 9% ZINC COASTAL CHELATED SOLUTIONS	**Zinc (Zn)** controls the synthesis of indoleacetic acid (IAA), which dramatically regulates plant growth. It is necessary for chlorophyll synthesis, protein and carbohydrate formation and sugar consumption. **Zinc** also promotes water absorption and respiration. Most common deficiency symptoms include interveinal chlorosis on older leaves and shortened internodal length, which often results in a stunted plant with a rosette appearance.
CCS 6% MANGANESE COASTAL CHELATED SOLUTIONS	**Manganese (Mn)** aids in chlorophyll formation and serves as a catalyst in enzyme reactions such as the breakdown of carbohydrates, formation of vitamins, and nitrogen transformation. **Manganese** also activates certain phosphate-transferring enzymes which affect many metabolic processes. Most plants deficient in manganese have a yellow to olive-green appearance. Younger leaves are usually affected first. As deficiency symptoms progress, interveinal chlorosis becomes more noticeable, which is a yellowing between the veins of the leaves.
CCS 4.5% IRON COASTAL CHELATED SOLUTIONS	**Iron (Fe)** functions as a catalyst in several processes within the plant and plays a vital role in the formation of chlorophyll. **Iron** also functions in the respiratory enzymes and serves in the transport of energy within the plant. **Iron** is a fairly immobile nutrient and nutrient deficiencies are usually first noticed in young leaves. Leaves will first exhibit interveinal chlorosis which will eventually spread over the entire leaf.
CCS 7.5% COPPER COASTAL CHELATED SOLUTIONS	**Copper (Cu)** is essential for plant growth and activation of many enzymes including building and converting amino acids into proteins. Deficiencies interfere with protein synthesis and can cause a buildup of soluble nitrogen compounds in plant tissue. Deficiencies show up as wilting or lack of turgor and the development of a bluish green tint before leaf tips become chlorotic and die. **Copper** deficiency symptoms usually show up on new growth.
CCS 2.5% MAGNESIUM COASTAL CHELATED SOLUTIONS	**Magnesium (Mg)** is a secondary element in plant nutrition and helps activate many other plant enzymes needed for growth, regulates uptake of other nutrients, and carries phosphorus within the plant. It is a part of the chlorophyll molecule in all green plants and is essential for photosynthesis. Deficiencies usually occur in sandy soils or in soils with extremely high pH. Deficiencies show up in older leaves and express differently across various crops. In corn, it appears light yellow to white between parallel veins.
CCS 3% CALCIUM COASTAL CHELATED SOLUTIONS	**Calcium (Ca)** is a secondary element in plant nutrition and is an essential part of plant cell wall structure. It provides for normal transport and retention of other elements. **Calcium** counteracts the effect of alkali salts and organic acids within the plant and exists in a delicate balance with magnesium and potassium. **Calcium** deficiency is usually observed as a failure of terminal buds and apical root tip development. Leaves appear wrinkled with young leaves never unfolding; root systems are short and very bunched.

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	MATERIAL	%	NUTRIENT AMOUNT	DENSITY
CCS 9% ZINC COASTAL CHELATED SOLUTIONS	ZINC	9%	0.99 lbs./gallon	11.6 lbs./gallon
CCS 6% MANGANESE COASTAL CHELATED SOLUTIONS	MANGANESE	6%	0.66 lbs./gallon	11.0 lbs./gallon
CCS 4.5% IRON COASTAL CHELATED SOLUTIONS	IRON	4.5%	0.45 lbs./gallon	10.0 lbs./gallon
CCS 7.5% COPPER COASTAL CHELATED SOLUTIONS	COPPER	7.5%	0.8 lbs./gallon	10.6 lbs./gallon
CCS 2.5% MAGNESIUM COASTAL CHELATED SOLUTIONS	MAGNESIUM	2.5%	0.27 lbs./gallon	10.6 lbs./gallon
CCS 3% CALCIUM COASTAL CHELATED SOLUTIONS	CALCIUM	3%	0.30 lbs./gallon	9.9 lbs./gallon

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