

**CSL+**



**Premium Organic Fertilizer with Enhanced Plant Uptake**



*Enhanced Plant Uptake  
38% L-Amino Acids  
Premium Organic Fertilizer*

*CSL+ is an innovative organic blend of L-Amino Acids from a combination of soy protein hydrolysate and corn steep liquor. This cutting-edge formulation provides a plethora of benefits from Fulvic and other beneficial organic acids, proteins, enzymes, vitamins, hormones and sugars.*

*CSL+ is Mother Nature's highly-bioavailable nutrient source with outstanding uptake efficiency **effectively increasing the plant-available N-P-K chemical analysis over other fertilizers** that is excellent for any program - conventional, sustainable or organic.*

*L-Amino Acids are nature's building blocks of proteins and play a vital role on photosynthesis. They also contribute to many plant functions: cell wall strength, fruit quality, pollination, pollen fertility, hormone synthesis, formation of vegetative tissue, chlorophyll synthesis, stomatal regulation, chelation and much more.*

*CSL+ is a **100% water-soluble** organic fertilizer that is all-carbon-based, alleviating potential for foliar burns.*



# Mother Nature's Nutrient Source



## Boosts Microbial Biomass and Soil Nutrients Availability

*Soil health is vital in today's agriculture industry and improved microbial activity is enhanced by carbon sources such as L-Amino Acids, Fulvic/Humic Acids and Sugars are included in CSL+. Frequent feeding of soil microbes increases the soil's biomass, which in turn improves soil structure and health for stronger plant performance. Microbes are Nature's recyclers and help release tied-up soil nutrients that are not normally plant-available.*

## Stress Relief and Disease Prevention

*Abiotic Stress (hot or cold weather, low or high humidity, frost, floods, etc.) and Biotic Stress (disease and insects) greatly affect plant metabolism which leads to poor plant performance in yields and overall quality. Regular applications of L-Amino Acids prime the plant for prevention or faster recovery from stress-related harm. Other included naturally plant-produced organic acids are highly effective in preventing many plant diseases.*



# CSL+

## Features

- *100% Organic and Water Soluble.*
- *Provides immediately- available nutrients.*
- *Improves root nutrient uptake.*
- *Improved resistance to stress.*
- *Improved yields and quality including shelf life of fruits & vegetables.*
- *Easy-to-handle in drip and pivot irrigation, hydroponics or sprayers.*
- *Pleasant odor for use in enclosed environments like greenhouses.*
- *Great for use on fruits, vegetables, trees, shrubs and turfgrass.*
- *Animal-friendly.*



# Benefits

- **High carbon source** of nutrients that is safe for all types of fruits, vegetables, grasses, trees and shrubs.
- **Provides over 18 L-Amino Acids** plus other organic acids for direct absorption through leaves and roots.
- **Highest percentage** of plant-absorbable amino acids, peptides and B-complex vitamins.
- **Immediately-available** Nitrogen, Phosphorous, Potassium and micronutrients for rapid assimilation.
- **Gives crops extra energy** and resistance during times of stress.
- **Seaweed Extract** provides natural plant hormones.
- **Improves root development**, blooms, and fruit set.
- **High-efficiency** multi-functional organic acids.
- **Enhanced plant immunity** to stress and disease, and promotes overall health.
- **Accelerates production** of nucleic acids.
- **Enhances photosynthesis** and respiration.
- **Improves soil** Cation Exchange Capacity (CEC).
- **Higher and more efficient uptake** of nutrients.
- **Increases the protein** biosynthesis of plants.
- **Increases biomass** production and crop yields.
- **Excellent supply** of complexed carbohydrates for soil microbiome.
- **Engineered for maximum compatibility** and is tank-mixable with most fertilizers and pesticides. Jar testing is recommended to confirm compatibility.

**Apply CSL+** especially in periods when crops need a physiological stimulus, such as

- Start of the vegetative cycle - as soon as there are sufficient leaves for foliar application.
- Pre-flowering and petal fall.
- Fruit development.



**Enhanced Plant Uptake  
Premium Organic Fertilizer**

## Guaranteed Analysis

Total Nitrogen (N)	4%
Available Phosphate (as P <sub>2</sub> O <sub>5</sub> )	2%
Soluble Potash (K <sub>2</sub> O)	3%

**Derived from:** Soy Protein Hydrolysate and Corn Steep Liquor.  
ALSO CONTAINS NON-PLANT FOOD INGREDIENTS including  
4% Seaweed Extract, 2% Fulvic Acid and 5% Molasses.

## CSL+ 4-2-3

### INDIVIDUAL AMINO ACID VALUES

AMINO ACID	POWDER GRAMS of AMINO ACIDS PER 100G OF PROTEIN
ALANINE	11.12
ARGININE	3.61
ASPARTIC ACID	1.21
CYSTEINE	0.46
GLUTAMIC ACID	3.86
GLYCINE	1.96
HISTIDINE	2.46
ISOLEUCINE	1.37
LEUCINE	2.39
LYSINE	1.74
METHIONINE	0.48
PHENYLALANINE	0.96
PROLINE	0.96
SERINE	0.42
THREONINE	1.56
TRYPTOPHAN	0.04
TYROSINE	0.40
VALINE	1.56
<b>TOTAL</b>	<b>38.57%</b>
<b>NITROGEN</b>	<b>4.00%</b>
<b>PROTEIN</b>	<b>25.00%</b>

**CSL+** is also recommended if crops are exposed to unfavorable conditions (drought, cold, salinity, wind, etc.) and in treatments for plant recovery after damage from storms and other critical periods.

**CSL+** is a professional-grade 100% plant-based organic fertilizer suitable for soil or foliar applications.

**For Maximum Benefit, CSL+** is intended to be applied based on soil test results and in-season plant sap analysis recommendations. If these soil and sap analyses with specific recommendations are not utilized, a general application guide can be found on the next page.

#### Directions for Use:

- Shake or agitate container to break up any stratification of ingredients to insure a uniform product before dispensing.
- Dilute with water and agitate to a uniform mix. No further agitation is necessary.
- Contact us for any questions concerning irrigation/spray water quality.
- Always jar test before adding working solution to spray or irrigation injection tanks, especially when mixed with other products.

**Directions for Use:** Dilute with water and agitate to a uniform mix.

APPLICATION	PROFESSIONAL	HOMEOWNER
AT PLANTING	2-4 quarts/Ac (5-9 L/Ha)	2 oz/ gallon – Repeat weekly
ESTABLISHED	1-2 gallons/Ac (9-18 L/Ha)	4 oz/ gallon – Repeat 2-4 weeks
FOLIAR <sup>1</sup>	1-2 quarts/Ac (2-5 L/Ha)	1 oz/ gallon – Repeat 2-3 weeks
SEED TREATMENT	0.25% or 8 oz/50 lbs. of seed (250 ml/100 kg) dilute with water	
HYDROPONICS	1-2 oz/250 gallons of nutrient solution (30-60 ml/1000 Liters)	

\*These are standard recommendations that can vary according to soil properties, cultivated crop and local conditions.

<sup>1</sup> Surfactant recommended.

***Store in a cool dry place out of direct sunlight.***

***Do not allow to freeze.***

***Shake or agitate before use.***



## STORAGE

Store above 40°F in a cool dry place and in original container only. Keep cap tightly closed. Keep away from direct sunlight or high temperatures. In any case, **avoid freezing.**

**IRRIGATION AND SPRAY WATER CHEMISTRY** can have a direct impact on the effectiveness of this product as well as on native soil chemistry and plant performance. Call for further details

## WARRANTY

In as much as weather, crops, soils, water quality, other ecological factors and storage conditions may often vary, the Seller makes no warranty of any kind, either expressed or implied whatsoever concerning the effectiveness or use of this product. The User assumes all responsibility and risk of use, handling, storage and proper disposition of this container whether or not these cautions, instructions and suggestions are or were followed. CSL+ contains No Ecologically-Harmful ingredients

## NET CONTENT SIZES AVAILABLE

- 32 ounce (0.94 liters) Measured Dispense Bottle
- 1 gallon (3.78 liters) Jug
- 2.5 gallon (9.46 liters) Jug
- 5 gallon (18.92 liters) Pail
- 55 gallon (208.20 liters) Drum
- 275 gallon (1040.99 liters) Tote

## WEIGHT PER GALLON

9.84 lbs. (1.18 kg/l)

## pH OF UNDILUTED CSL+

4.6

## STORAGE LIFE

Typically Two Years from date of production, depending upon storage conditions.

## AVOID CONTACT WITH SKIN, EYES OR CLOTHING.

In case of contact, immediately flush skin, eyes or clothing with plenty of water for several minutes.





# Plant Natural<sup>™</sup>

I N N O V A T I O N S

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