



## What is CBX?

CBX is a unique, environmentally friendly bio stimulant that is based on a high carbon, plant based mineral deposit called Leonardite. The deposit from which our leonardite is excavated, is unique in comparison to the majority of sites found worldwide, in that it has never been permanently flooded by water. As a result, this deposit has retained more nutrients than most others. We take this material and put it through a process similar to what an animal would do to create manure. The highly concentrated plant minerals are fed to a "mechanical animal" utilizing a proprietary process to extract the desired properties. The result of this leaching process is an unsterilized, nutrient dense liquid that forms the basis for CBX. The compound blend of five nutrients, the primary being Nitrogen, also contains essential Iron, Manganese, and Zinc, with trace amounts of Boron. CBX meets the needs of growers of vegetables, grain, fruit, root crops, berries and other food crops as well as nurseries, gardening and horticulture.

## How does CBX work?

Leonardite has the highest content of naturally occurring humic and fulvic acids found in any source. The extract of this material contains an organic material which has an excellent effect on plants and soil. When CBX comes in contact with soil, the biodiversity in the soil increases and conditions are optimal to achieve stronger, healthier and more stable soils for plant growth.

CBX improves the soil structure and increases the cation exchange capacity which contributes to an increased availability of nutrients in the soil. Plants in soil treated with CBX experience rapid improvement in nutrient absorption, increased root growth, strength to withstand diseases and strong and healthy growth.

CBX also stimulates micro-biological growth and enzyme activity in most all soil conditions. It increases aeration of soils; Chelates existing soil nutrients for easier plant uptake; Complexes applied nutrients for easier plant uptake; Acts as a carrier for both soil and foliar nutrient applications; Increases water penetration; Aids in organic residue decomposition; Improves soil particle water retention; Encourages improved root growth/depth penetration; Buffers salts; Stimulates biological humus development.



## Application

- Best applied with a conventional sprayer, however irrigation, fertigation and liquid banding are alternative application methods.
- CBX may be tank mixed with herbicides, but must NOT be mixed with pesticides or fungicides.
- CBX may be tank mixed with other liquid fertilizers.
- A clean and neutralized sprayer tank is essential.
- Agitate tank to ensure CBX and water are thoroughly mixed prior to application.
- Incorporation of CBX in to soil is not necessary, unless extreme compaction exists.
- Can be applied to soil or foliage in both spring and fall.
- 30-50% reduction of all conventional fertilizers based on same season soil analysis.
- If there is very little trash on the soil, use the lower range of recommended water dilution. Excessive trash requires water dilution at the high end of the recommended range.

Plant or Crop Type	Area	CBX	Water			When to Apply
			Metric	Imperial	US	
All plant or crop types	One (1) Acre	One (1) Litre	19 to 38 Litres	4 to 8 Gallons	5 to 10 Gallons	One (1) application in early spring <b>OR</b> one (1) application in early fall.

## Benefits of CBX

- Increase organic matter in soil, reduce soil density, increase water holding capacity
- Environmentally safe for humans, animals and aquatic life- no harsh chemicals to runoff or leach into waterways
- Stronger, more resilient plants – greater frost, drought, weed and pest resistance
- Higher brix levels- increased shelf life, more nutritious and better tasting
- Increased species richness diversity (SRD)
- Improved water efficiency- Absorption, retention and drainage in the soil equals increased water efficiency and reduced irrigation costs
- Salt management
- Accelerated digestion & recycling of organic matter
- Increased nutrient availability
- Controlling disease and enhancing growth
- Increased cation exchange capacity (CEC)



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