

# Okita pH+

**OKITA pH PLUS IS A SUSPENDED LIQUID "TECHNICAL GRADE CALCIUM" ORIGINATED FROM CALCIUM CARBONATE. THE OTHER IMPORTANT FUNCTION OF OKITA pH PLUS IS BEING AN EXCELLENT CALCIUM SOURCE FOR BOTH SOIL AND PLANT.**

## PURPOSE AND SOIL ADVANTAGES OF OKITA pH PLUS

- The main purpose of this product is to prevent low pH to develop in soils or to increase a low pH soil to a desirable level suitable for crop production
- Okita pH Plus is the fastest method to increase a low pH soil level to a level optimal for specific crop needs
- The notable shorter time frame to increase the pH level is made possible by the very fine particle size in Okita pH Plus (average 0.75 micron) causing easy soil infiltration with rain or irrigation against bulk lime applications which has to be worked in and still have a slow and insufficient soil reaction
- Okita pH Plus reduce the risk of Aluminum (Al), Chloride (Cl) and other heavy metals toxicity, which often occur in soils with a high acid content
- When an imbalance of Ca:Mg occurs in the soil content (too much Mg and too low Ca) a Okita pH Plus application can be applied on condition that it does not create a pH content that is too high
- Contains no harmful chemicals, is not poisonous, and therefore no withholding period is applicable
- After completion of a soil recovery plan, the use of most chemicals cause an acidic effect, which has to be remedied by regular lime applications to maintain an optimal pH and lime levels
- The fine particle size also cause a quicker reaction in the soil, already 2 - 8 weeks after application in the process of reaching a higher pH
- Essential for organisms especially Nitrogen binding bacteria
- Okita pH Plus has an average size of 0.75 micron of which 90% is < 2 micron. The smaller the particle size the more effective it is meaning that up to 80% quicker increase from a low pH of soil to a satisfactory pH level is obtained

## FINANCIAL ADVANTAGES

- No need to be mechanically applied such as with a Calcium spreader
- Intensive crops and orchards can easily be reached by means of irrigation
- Orchards, permanent crops and other intensive crops can also be applied with own mechanical vehicle by spraying with a suitable sprayer, or fitted liquid tank
- Differentiate between an initial soil recovery program and regular maintenance. Maintenance applications is lower ( $\leq 1$  / year)
- Application through irrigation eliminate mechanical application which is a huge cost saving and the Calcium does not block the irrigation equipment if regular flushing of the pipe system is done

## PLANT ADVANTAGES

- Improve seed germination if applied during soil preparation or when planted
- Improve plant resistance against harmful Enzymes (pectinase) which harm plant pectin. Enough Calcium strengthens the plant pectin content. The higher pectin content inhibits pectinase harm and improves plant recovery, after damage
- Calcium recovers plants after pest and disease attacks
- Improve resistance against disease and mites
- Increase the Brix content which hardens the skin, cells and lessen bruises
- Improve cell wall structure
- Improve uptake of other nutrients such as Phosphate, Molybdenum and Boron
- Micron particle size content which with rain or irrigation is infiltrated between soil particles supplies the correct amount of Calcium directly to plantroots

## OTHER ADVANTAGES

- Calcium serves as a soil conditioner
- No logistic problems regarding trucks or external contractors
- No problem with product storage
- Can be applied any time of the year
- Non-toxic to animals or humans
- Contains no toxic contents or heavy metals
- No withholding period conditions
- Liquid Calcium is not subject to windy conditions vs dry bulk Calcium which can blow away with application
- Long shelf life

## APPLICATION

It is extremely easy to apply single applications on a regular basis if compared to the inefficient and expensive way of applying the bigger sized bulk lime. Okita pH Plus can be applied through boom spray, drip systems, pivot point, micro-jets, overhead systems or air application. It can also be applied under pressure with a "flood nozzle jet" into the soil.

### A) Apply concentrate / Ha diluted as directed underneath:

- Shake well before application (fixed solids drain to bottom)
- B) **Dilution:** 1 part Okita pH Plus with 5 parts water
- The dilution is fit to apply with spray pumps
- Application through irrigation can be done with more parts of water, but care must be taken that the required volume / Ha will be applied



Reg. No. B 4650 (Act 36/1947)

CONTENT	APPLICATION TABLE PER pH CONTENT FOR SOIL RECOVERY		
	Sodium %	Sand/Loam L/Ha	Clay L/Ha
Calcium - 25.71%	< 4.0	15 - 30	20 - 40
	4.0 - 5.0	10 - 20	15 - 30
	5.0 - 6.0	5 - 10	10 - 20
	6.0+	2.5 - 5	5 - 10

*Note: Mixtures must be used on the same day that it was made*

For specific crop fertilizers recommendations please contact the office or agent:

OFFICE: 086 100 5051  
www.eco-fert.co.za

AGENT DETAILS:

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