

Mixing and Handling Optima CalSap

This fact sheet covers information and procedures to help you gain the maximum efficiency when using and handling Optima CalSap.

Application Rates – Broadacre

Liquid Injection in Furrow (at planting):

5-10 litres per hectare.

Ground Applied (at season break):

10-20 litres per hectare.

Foliar Application (during season):

5-10 litres per hectare

Sodic & Hard Setting Soils (ground apply):

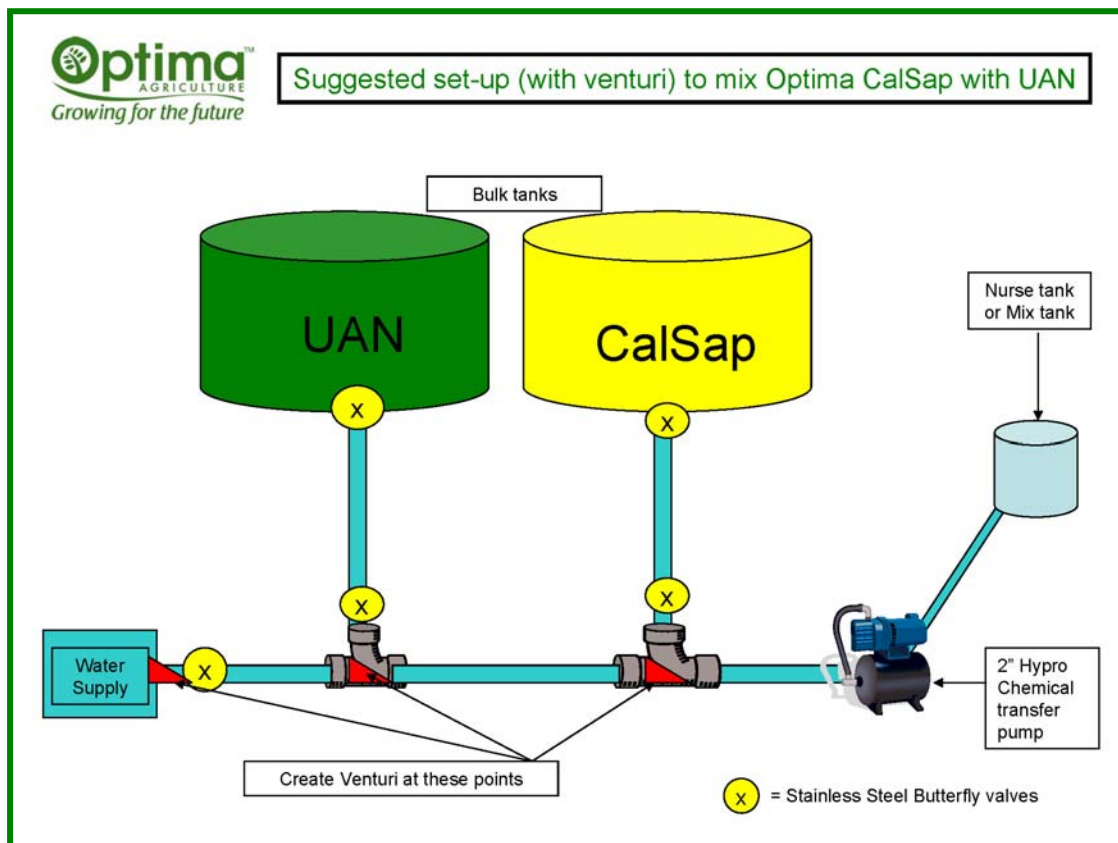
40-80 litres per hectare

Directions for Use

- Optima CalSap mixes easily with water and is also compatible with products such as UAN.
- When using other elements, jar testing is advised.
- Mixing Optima CalSap with chemicals is not recommended.
- Good agitation is suggested, when mixing CalSap with other products.

If mixing CalSap with UAN

- Optima CalSap is compatible with UAN and can be mixed neat.
- When mixing neat products add CalSap to the UAN.
- The recommended CalSap/UAN ratio is 1:5
- When mixing with water add UAN and then add the CalSap last.
- If CalSap is left to stand for a prolonged period of time good agitation is suggested.
- Foaming may occur when mixing. Use 10-20ml/1000litres of anti-foam, fish oil or mineral oil to help alleviate the problem.



Mixing CalSap with other products (including trace elements)

- When looking to add products to Optima CalSap please be aware that CalSap is an alkaline product
- Mixing Optima CalSap with chemicals is not recommended.
- If adding trace elements it is recommended that the trace elements are in a liquid sulphate form.
- The recommended mixing order when using liquid sulphate trace elements is; Water + UAN + CalSap + Buffer + Trace Elements
- A Jar test is recommended at all times
- If CalSap is left to stand for a prolonged period of time good agitation is suggested.
- Field results have shown that the green drop or squeeze pump Liquid injection systems provide the most reliable results when delivering a mixed product that includes CalSap.

To transfer CalSap into mixing or spray tanks

- As CalSap is a slightly viscous product it is recommended you use either specific pumping equipment or set-up a venturi system to best transfer the product from a bulk tank or IBC into your spray tank.
- CalSap has a Specific Gravity of 1.3
- To create a venturi and pump with a centrifugal pump you require UAN or water to act as the carrier.
- If pumping CalSap without water, the use of positive displacement pumps is recommended. i.e. 1" or 2" Gear Pump



If applying CalSap through conventional boom spray systems

- Use jets 300 um or larger
- We recommend you use large 50 mesh filters with a high surface area
- Minimum dilution is 1:5 (1 litre CalSap to 5 litres of Water)
- If CalSap is left to stand for a prolonged period of time good agitation is suggested.

If applying CalSap through Orifice Plate Liquid Injection Systems

- Use filters with high surface area.
- Agitate in main tank
- If CalSap is left to stand for a prolonged period of time good agitation is suggested.
- Consider using an orifice plate larger than 300um however if using a CalSap tank mix with UAN + Buffer + trace elements consider using a 600um orifice plate
- Consider converting to VRS adaption

Cleaning & Handling recommendations when using CalSap

- Foaming may occur when mixing. Use 10-20ml/1000litres of anti-foam, fish oil or mineral oil to help alleviate the problem.
- Use water to clean the IBC or tank after use
- Always keep containers/tanks airtight



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