

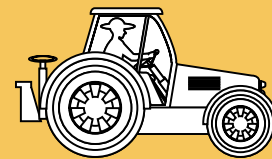
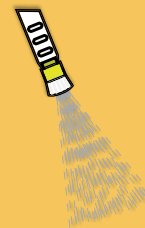
# CITRAN



## CITRAN 1 - NATURAL SANITISER

### Natural Commercial grade sanitiser and disinfectant

- Sanitises & disinfects all hard surfaces, walls, floors & machinery
- Fruit & vegetable sanitiser
- Not affected by presence of dirt
- 100% Natural, non-toxic & non corrosive
- Excellent for foot baths because dirt does not affect efficacy
- Requires no rinsing

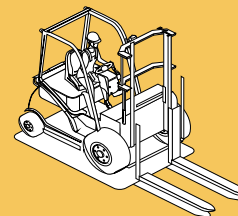


### Safe for food contact situations

Citran meets the requirements of FSANZ for use as a processing aid under GMP for most raw foods including uncooked crustaceans, fruit and vegetables and poultry.

### Effective Sanitiser

Citran 1 Sanitiser reduces the bacteria loading and keeps it at low levels, to the point of eliminating them, reducing the risk of food poisoning. When used at recommended rates, Citran 1 will kill 99.99% of germs to the ARTG standard test for commercial grade disinfection. (Option C Method)



### Applications

Farm machinery and trucks  
(especially where more than one driver is using the equipment)  
Fruit and Vegetable Wash  
Foot baths  
Pack sheds  
Cool stores  
Nurseries

Warehouses and Storage facilities  
Storage bins/Vegetable Crates/harvest buckets  
Lunchrooms and restrooms  
Schools and Colleges -playgrounds, lunch areas etc  
Councils -for sanitising trucks and equipment  
Kennels, Stables etc

## Keep your people and customers safe!



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# CITRAN 1 - Natural Sanitiser

100% natural Citran 1 is **non-toxic and non-corrosive**. It leaves no hazardous breakdown products allowing disposing of all the wash liquids direct to town drains.

It can be applied immediately after harvest for protection from human pathogens during picking, handling and transport.

## How Citran works

Citran 1 Sanitiser does not poison the organism but acts by destroying the cellular membrane of a micro-organism (cell wall intrusion). Within a few hours of application, the natural components that remain will have either combined with the organic acids and sugars present in the food, or broken down further into harmless components, leaving no detectable residues or toxicity.

## Citran Safety

Citran 1 Sanitiser is low irritant, non-corrosive and non-volatile, although best to keep out of reach of children.

## Fruit & Vegetable Sanitiser

Citran 1 Sanitiser is ideal for washing of whole fruit and vegetables, including leafy greens, before packaging and can be used to sanitise fruit and vegetables such as apples, oranges, lettuce cucumber, etc prior to packaging. Dilute in clean water before use.

Citran 1 Sanitiser is an excellent alternative to chlorine and peroxy acids in the drenching and washing of fruit and vegetables during processing operations.

## RATES

### Commercial Grade Sanitiser:

Floors, walls, benches - 20ml/L (2% solutions)

### Commercial Grade Disinfection:

Hard surface and processing equipment disinfection - 50ml/L (5% solution)

### Biosecurity

- 50ml/L (5% solution)
- Sanitising vehicles, agricultural equipment, foot baths

### Cool Room Fogging

- 5ml/L - produce present
- 20ml/L - empty
- Best used in water between pH 5 & 8, and temperatures under 60°C.

### Fruit & Vegetable Sanitiser:

Dip & Spray

- 2.5ml/L (0.25% solutions) - 5 minute contact time
- 5ml/L (0.5% solution) - 1 minute contact time
- May foam in high pressure sprays

**Pack sizes: 1L, 5L, 20L**

## Specifications

Active Components - Octanoic acid, bioflavonoids (bitter orange extract)

Water Quality - Suits a wide pH range: 5-8; Temperature up to 60°C; Dilute with potable water

# TEST RESULTS

## Effectiveness of Citran 1 against Fusarium Chlamydospores

Treatment	Contact Times *	No soil # colonies	With Soil # colonies
Control (water + Fusarium)	0	659.3	791.6
	5 minutes	684.6	787
	30 minutes	597.2	785.7
	24 hours	347.3	782.4
Citran 1 (1 : 10 dilution)	0	0.4	0
	5 minutes	0	0
	30 minutes	0	0
	24 hours	0	0
Farmcleanse (1:10 dilution)	0	17.8	11.2
	5 minutes	8.2	5.7
	30 minutes	9.4	7
	24 hours	1.2	1.3

Note:

- Conducted by Dept of Agriculture & Fisheries (Qld DAF)
- Chlamydospores will survive for up to 30 years in soil and are considered the main long term infection source.
- "Due to the seriousness of the disease (Panama) to the banana industry, we would not recommend the use of a product unless undetectable levels (zero) were achieved in this bioassay." - Qld DAF

\* Time is the sampling time. The samples are incubated for 48 hours and then # colonies reported.

Reduction in total plate count by sanitisers



## Test Results (1 minute dip in Citran 1 - 0.5% solution)

### Tomatoes

