citrus research international

POSTHARVEST TREATMENT FACTSHEETS

PRE-PACKHOUSE DRENCH

ALWAYS REFER TO PRODUCT LABELS

GENERAL RECOMMENDATION: Thiabendazole + Pyrimethanil + 2,4-D + Peracetic acid

Other suitable sanitiser actives: Clove oil, potassium sorbate and stabilised gluteraldehyde-based sanitisers, or chitosan (check for compatibility before adding these actives)

1. The aim is to protect fruit from decay during storage and degreening.
2. Thiabendazole and pyrimethanil may be replaced with other fungicides, provided they will not be applied again in the packhouse.
3. **NB:** ENSURE THAT FUNGICIDES FROM DIFFERENT FRAC GROUPS ARE SELECTED.
4. Azoxystrobin can be added for post-harvest management of brown rot. It can replace pyrimethanil in the drench as they both provide green mould control. Do not use azoxystrobin in the fungicide bath or in-line drench if it was used in the pre-packhouse drench.
5. Important! Fruit should be dry when degreened. This is especially of concern when using clove oil or PAA, as extended wetting can lead to burn or increased rind disorders. Harvesting practices should be optimised to minimise the development of rind disorders when using clove oil.
6. Keep in mind that there is no existing MRL for potassium sorbate if used on citrus destined for the local SA markets.

MIXING PROTOCOL:

1. Fill water tank to 80% capacity and start pump(s).
2. Pre-suspend fungicides individually in lukewarm water (35 – 40°C).
3. Order of mixing: SG – SC – EC – SL
4. Fill water tanks to full capacity.
5. Let the system run for 15 min before commencing treatment to facilitate thorough mixing.

OPERATION:

1. The drench system must deliver at least 500 ℓ drench mixture/bin/minute.
2. Exposure time must be 2 to 3 minutes.
3. Replace mixture after 150 bins (1 000 ℓ), 200 bins (2 000 ℓ), or 300 bins (3 000 ℓ).
4. Mixtures can be sanitised with a registered and compatible sanitiser.
5. Constant agitation of the mixture is necessary.

MRL list and restrictions: Visit www.cga.co.za or email pb@cga.co.za for "RECOMMENDED USAGE RESTRICTIONS FOR PLANT PROTECTION PRODUCTS ON SOUTHERN AFRICAN EXPORT CITRUS"