

# CHLORINE FREE CLEANING KEY POINTS

**BIOCEL**  
LTD

**TEMPERATURE IS CRITICAL WITH CHLORINE FREE DETERGENT**  
(70 - 80 °C optimum - send to drain at 55°C)

**HOT WASH PLANT ONCE A DAY IF POSSIBLE**  
Otherwise Hot wash every day Bulk tank is not being washed.

**DO NOT RECOVER DETERGENT FOR NEXT CLEAN**  
Use fresh detergent on every occasion

**CALIBRATE AUTO WASHER WHEN MOVING TO CHLORINE FREE**  
Ensure auto dose pump piping is large bore to prevent more concentrated Chlorine Free caustic detergents drying in pipes between milkings

**ROUTINE ACID WASHING AND THE USE OF SERPENT PAA**  
to ensure no scale build up to keep Thermodurics to a minimum.  
(See recommended Wash Programme overleaf)

## PROVEN COST EFFECTIVE PRODUCTS FOR MILKING PLANT AND BULK TANKS



**PRODUCT FLEXIBILITY FOR BULK TANK CLEANING**  
Multisan CF & Circo Acid 3 - Most Cost effective Option  
Circo Acid 3 - Stand alone Detergent / Descaler Option  
Serpent for final Rinse Sanitation



**Before changing to Chlorine Free Detergents Rinse detergent suction hoses with water**  
**Recalibrate to correct dose Rate of 0.7% for Multisan CF and Circo-Acid 3**

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## Typical Weekly Chlorine Free Cleaning Programme for Milking Plant

**Note – Always Wash Bulk Tank with Hot Detergent**

Hot Detergent can be used on Milking Plant on Intermediate days if sufficient Hot water is not available

**Multisan CF /Circodine CF/ Locount / Circo -Acid 3 and Serpent**

**Recommended Temperatures– Hot Detergents—70-80 °C**

**Note– Detergent Circulation should finish before Temperature drops below 55°C**

Day	Morning	Evening
Day1	<b>Hot Detergent Circulation</b> ( <b>Multisan CF / Circodine CF/ Locount</b> ) Send to drain after use. <b>Serpent</b> added to final rinse	<b>Cold Detergent Circulation</b> ( <b>Multisan CF / Circodine CF/ Locount</b> ) Send to drain after use. <b>Serpent</b> added to final rinse
Day 2	<b>Hot Detergent Circulation</b> <b>Circo Acid 3</b> Send to drain after use. <b>Serpent</b> added to final rinse	<b>Cold Detergent Circulation</b> ( <b>Multisan CF / Circodine CF/ Locount</b> ) Send to drain after use. <b>Serpent</b> added to final rinse
Day 3	<b>Hot Detergent Circulation</b> <b>Multisan CF / Circodine CF/ Locount</b> Send to drain after use. <b>Serpent</b> added to final rinse	<b>Cold Detergent Circulation</b> ( <b>Multisan CF / Circodine CF/ Locount</b> ) Send to drain after use. <b>Serpent</b> added to final rinse
Day 4	<b>Hot Detergent Circulation</b> ( <b>Multisan CF / Circodine CF/ Locount</b> ) Send to drain after use. <b>Serpent</b> added to final rinse	<b>Cold Detergent Circulation</b> ( <b>Multisan CF / Circodine CF/ Locount</b> ) Send to drain after use. <b>Serpent</b> added to final rinse
Day 5	<b>Hot Detergent Circulation</b> <b>Circo Acid 3</b> Send to drain after use. <b>Serpent</b> added to final rinse	<b>Cold Detergent Circulation</b> ( <b>Multisan CF / Circodine CF/ Locount</b> ) Send to drain after use. <b>Serpent</b> added to final rinse
Day 6	<b>Hot Detergent Circulation</b> ( <b>Multisan CF / Circodine CF/ Locount</b> ) Send to drain after use. <b>Serpent</b> added to final rinse	<b>Cold Detergent Circulation</b> ( <b>Multisan CF / Circodine CF/ Locount</b> ) Send to drain after use. <b>Serpent</b> added to final rinse
Day 7	<b>Hot Detergent Circulation</b> ( <b>Multisan CF / Circodine CF/ Locount</b> ) Send to drain after use. <b>Serpent</b> added to final rinse	<b>Cold Detergent Circulation</b> ( <b>Multisan CF / Circodine CF/ Locount</b> ) Send to drain after use. <b>Serpent</b> added to final rinse

**Detergent Usage Rates -Multisan CF (Hot -0.7%— Cold 0.94% )- Circodine CF (Hot-0.4%— Cold 0.5%)  
 —Locount (0.5 %) —Circo Acid 3 -(0.7% )- Serpent (0.13%)**

**Recommended Volumes per Cleaning Steps —Water Rinses—14L/unit—Detergent Circulation —9 L /unit Serpent Rinse —5 L /unit at end of Final Rinse**