Effective Detergent Rinsing

Effective cleaning of dairy plants is an important part of supplying high quality milk to Fonterra.

Just as important as the cleaning is the prevention of any residual cleaning chemicals entering the milk supply. Fonterra, as well as our regulator, MPI, and our overseas customers and markets need to demonstrate we are supplying consumers with milk and milk products that are free from contaminants.

All farm dairy detergents must be thoroughly rinsed from the dairy plant prior to the next milking in order to prevent residual chemical contamination of the milk.

The best practice guidelines that will be outlined in the 2013/2014 Dairy Diary is outlined below.

MILKING PLANT AND VAT CLEANING

MANAGEMENT OF CLEANING RESIDUES

You must ensure all dairy detergents are thoroughly rinsed from the milking plant and vat in order to prevent residual chemical contamination of the milk. Talk to your chemical supplier for the best solution for your farm dairy.

Tick which methods are incorporated into your displayed wash programme to prevent contamination

Suppliers with COMPLIANT WATER

PLANT – Choose at least one option

☐ **Rinse at the end of plant wash**

☐ **Rinse prior to cups on**

1. Drain completely
2. Rinse plant with 5L of water per set of cups
3. Retain water for post-milking flush if possible
4. Drain plant

☐ **Disposal of first milk through plant**

At the start of milking, dispose of an appropriate amount of milk to minimise residual wash chemicals from the plant.

Amount being disposed _____ Litres

Suppliers on WATER EXCLUSION

PLANT – Choose at least one option

☐ **Rinse at the end of plant wash**

☐ **Rinse prior to cups on**

1. Drain completely
2. Rinse with 5L of water and approved chlorine solution per set of cups
3. Retain water for post milking flush if possible
4. Drain plant

Note: 5ml of chlorine solution per 100L of water should be adequate (based on 10% chlorine solution)

If you are rinsing with water that fails on clarity then water should be filtered before rinsing.

☐ **Disposal of first milk through plant**

At the start of milking, dispose of an appropriate amount of milk to minimise residual wash chemicals from the plant.

Amount being disposed _____ Litres

VAT

☐ **Rinse prior to first milk into vat**

1. Rinse with a minimum of 120L of fresh water
2. Retain for rinsing post milking if possible

VAT

☐ **Rinse prior to first milk into vat**

1. Rinse with a minimum of 120L of treated water (as outlined above)
2. Retain for rinsing post milking if possible

If you are rinsing with water that fails on clarity then water should be filtered before rinsing

WASH PROGRAMME

You are required to have a suitable cleaning routine displayed in your farm dairy. Cleaning routines for the milking plant and the vat are available from your detergent company representative.

Where is your cleaning routine displayed?

_____

_____

_____

Monthly hygiene checks must be completed in this Dairy Diary. If you do not complete these pages, your Quality Management Programme **will not** be approved at your Annual Farm Dairy and Environmental Assessment

_____

Note: The chlorine solution must be approved for use in farm dairies. The use figures quoted above are based on a product containing sodium hypochlorite at 10%.

If you use a 10% sodium hypochlorite product, here are volume guidelines:

Plant size	Water volume	Volume of sodium hypochlorite (10%)	Standard measure
20	100L	5ml	1 teaspoon
40	200L	10ml	2 teaspoons
60	300L	15ml	1 tablespoon

Your farm dairy detergent supplier, Farm Dairy Assessor and milking equipment supplier can provide more specific information on the proper volume of water required to achieve an effective rinse in your plant and review your wash programme to ensure it is optimal for achieving a clean plant and residue-free milk.