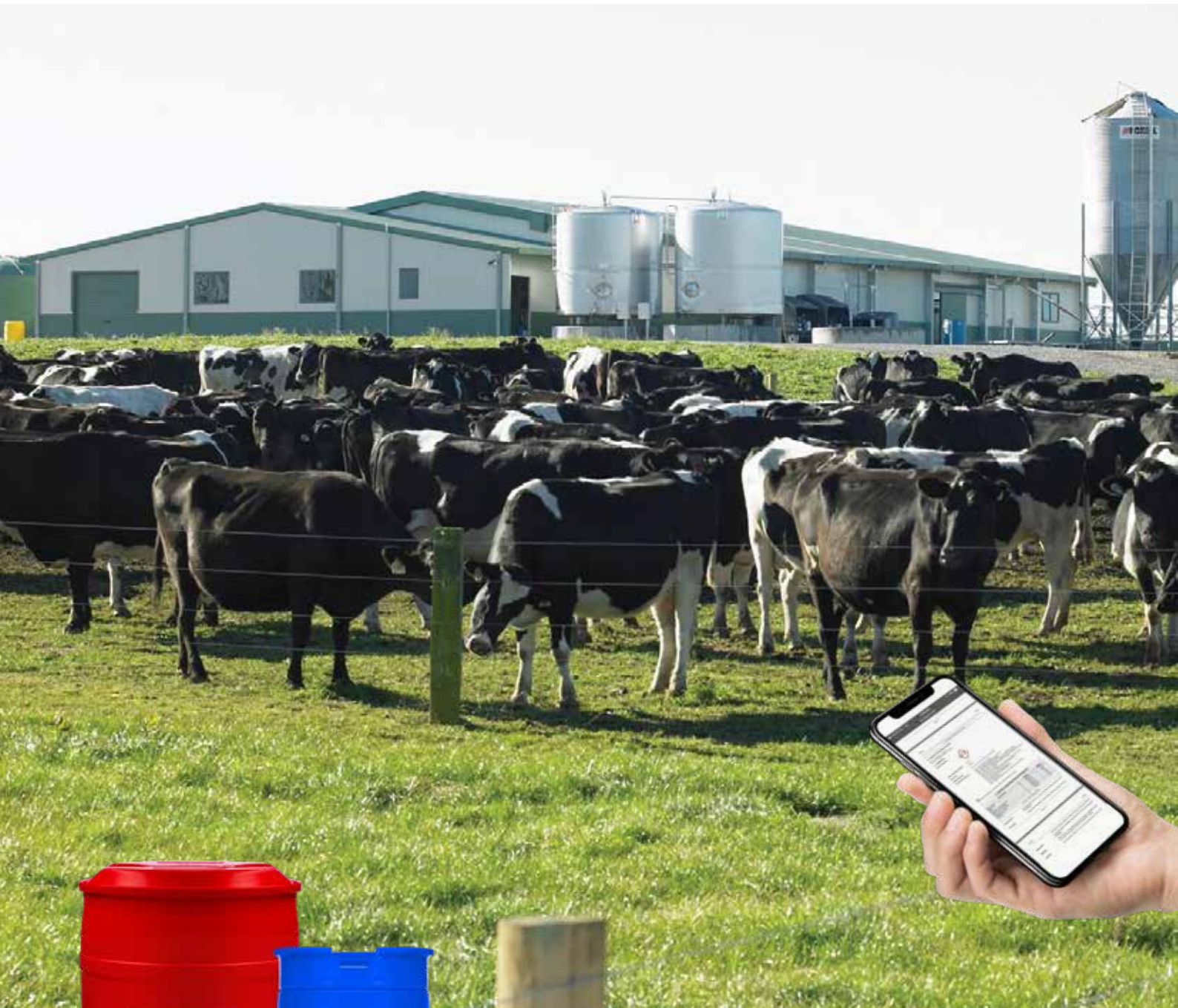


# Dairy hygiene solutions

## Milk quality means profitability



Colour coded drums and a QR code on all our products giving you quick and easy access to the Safety Data Sheet.

Working to improve **Health and Safety** on your farm

# Dairy hygiene solutions

## ACID detergents

Premium milk quality means profitability and we are here to help you to achieve this on a daily basis.

### Did you know

The energy needed to heat the water used to clean milking equipment costs much more than the detergent.



**When it comes to efficient cleaning, the plant and the chemicals need to be properly balanced to be working together.**

Cleaning requires appropriate air injection and plant settings to achieve sufficient turbulence and enough time, chemical and heat to do the job.

Variables such as volume of cleaning water can also negatively impact temperature and wash time. Similarly, the quality of water can also change regionally and this can affect the dosage and efficiency of the chemical. Your cleaning system needs to suit your farm.

Effective cleaning is not simply about choosing a detergent. It is this holistic competence that sets DeLaval and our people apart from the rest.





## All our ACID Detergents are NPE and QAC free

### ACID DETERGENTS

#### Cidisan

A premium quality, ultra low foaming acid sanitiser that cleans well in all water types and is particularly effective for highly turbulent milking machines. Cidisan leaves a mineral and streak free finish in warm - hot water.

**Dose rate:** 15-30ml/ 10ltrs wash water  
APVMA approval #63290

#### Acidet Plus

Acidet Plus is a low foaming acid sanitiser that is based on a concentrated blend of phosphoric acid and Dodicin to assist in the removal of milk stone and iron deposits. Acidet Plus is able to be used with automated cleaning systems, in all temperature conditions.

**Dose rate:** 20ml/10ltr wash water  
APVMA approval #69733

#### Antistone

This is a nitric acid based liquid detergent for the removal of mineral residues. It has an economical dose rate and works particularly well in water containing dissolved minerals and is low foaming for use in all milking machines.

**Dose rate:** 20ml/10ltr wash water  
APVMA approval #54468

### ACID DETERGENTS

#### Alfaguard

Alfaguard is a rapidly dissolving, economical, powdered detergent for milkstone removal. It is formulated for daily use and its performance is unaffected by water hardness. The added buffering agents ensure the product will not damage milking machine components whilst the low foaming nature means it is suitable for all machine cleaning systems, including jetter and bucket systems.

**Dose rate:** 20g/10ltrs wash water  
APVMA approval #54463

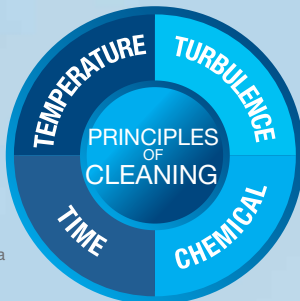
#### Iodophor LF12

A low foaming iodine acid sanitiser which prevents the growth of bacteria. Used in 35°C water, it is ideal for situations where final rinse hot water is in limited supply. It is formulated for daily use after every hot wash cycle and it is suitable for use in very hard or high iron water situations. Iodophor LF12 is used by farmers who demand absolute milk quality assurance.

**Dose rate:** 20ml/10ltrs wash water  
APVMA approval #54469

#### TechTalk: Detergent and the Principles of Cleaning

When setting up any wash programme, choose the product best suited to your plant by taking into account the 3 Ts – temperature, time and turbulence. These affect cleaning efficiency significantly. For example if you cannot reach the temperatures required then you may have to compensate by having a higher dose rate or use a product better suited to colder water.



“

As dairy farmers, we require the highest standard of hygiene in our Dairy.

In DeLaval **Cidisan**, **Chlortech** and **Liquid Alkali** we have the perfect cleaning regime and our local DeLaval Dealer provides us with the backup required for such an operation. We managed to have a grade free season.

”

# Dairy hygiene solutions

## ALKALI detergents

Maintain premium quality milk by maintaining premium quality dairy hygiene.

## Cleaning

To maintain premium milk quality and dairy hygiene, the products you choose to do the job are as important as the way they are applied. DeLaval provides a wide range of detergents for use in the dairy across all water types.

**Acid** and alkali detergents are the heart of any cleaning programme. Applied in the correct manner they remove milkstones, mineral build up, fat and protein. The product that you use in your dairy should be chosen depending on your water quality and the limitations of your milking plant. As water quality changes, it is important that you talk to your DeLaval representative so that the right product is used, whatever the changes in water quality.

Detergents can be supplied either as liquids or powders and what you use depends greatly on the best choice for your water quality. In general, powdered detergents cope better with water that is high in hardness. Water that is high in iron for example may need a different dose rate and type of detergent than water that has no iron.

Always use chemicals as per label using appropriate safety equipment

## Product Selection Guide

Characteristic	Acid Liquid Detergents				Acid Powder Detergents	
	Antistone	Cidisan	Idodphor	Acidet Plus	Alfaguard	
Removes milkstone	●	●		●	●	
For use in hard water	●	●	●		●	
Contains a sanitiser		●	●	●		
For use with high iron water		●			●	
For use in cold/warm water			●			
Characteristic	Alkaline Liquid Detergents			Alkaline Powder Detergents		
	Liquid Alkali	Liquid Dynamite Plus	Alkali HW	Chloridet	Chlortech	Dynamite Plus
Removes fat and protein	●	●	●	●	●	●
For use in hard water			●		●	●
Chlorinated		●		●	●	●

## All our ALKALI Detergents are NPE and QAC free

### ALKALI DETERGENTS

#### Preclean

Preclean is a low-foaming liquid rinse additive which conditions the milking machine to greatly improve the effectiveness of acid and alkaline detergents in all water conditions. It is particularly effective in areas where hard water is used for rinsing and helps prevent hard water scum from settling on machine surfaces.

**Dose rate:** 5ml/10ltr water  
APVMA approval #54473

#### Chloridet

Chloridet is a highly concentrated liquid chlorinated alkaline detergent that is specially designed for removal of fat and protein deposits in milking plants. It is free flowing for use in automated cleaning systems, with excellent penetration of soil to prevent re-deposition.

**Dose rate:** 15ml/10ltrs wash water  
APVMA approval #60691

#### Liquid Dynamite Plus

A balanced chlorinated liquid alkaline detergent to remove fat deposits and protein residues, whilst allowing a consistent flow and dosage in automated detergent dosing equipment. Suitable for water conditions up to 400ppm water hardness.

**Dose rate:** 30-40ml/10ltrs wash water  
APVMA approval #54027

#### Liquid Alkali

Liquid Alkali is a concentrated liquid caustic detergent with wetting agents and excellent fat and protein dissolving ability it is recommended for use with automatic cleaning systems.

**Dose rate:** 20ml/10ltr wash water  
APVMA approval #54474

### ALKALI DETERGENTS

#### Alkali HW

This is a very tolerant hard water alkaline powder detergent containing a high level of water softeners that has been formulated for use in water up to 1000ppm hardness. It contains alkaline salts to remove milk fat and protein residues. The low foaming nature of the product means that it is suitable for all machine cleaning systems, including jetters and buckets.

**Dose rate:** 30-40g/10ltr wash water  
APVMA approval #54476

#### Chlortech

Chlortech is a highly concentrated, heavy-duty, chlorinated alkaline milking machine detergent for fast milk fat and protein removal in difficult to clean systems. Low foaming nature means that it is suitable for all types of machine cleaning including jetter, reverse flow and bucket cleaning systems.

**Dose rate:** 15-20g/10ltr wash water  
APVMA approval #54470

#### Dynamite Plus

Dynamite Plus is a premium quality, chlorinated alkaline powder detergent with a caustic base for more effective removal of fat and protein. Dynamite Plus contains high levels of water softeners and is ideal for use in water up to 700ppm total hardness. It is used by farmers who take pride in their production of top quality milk.

**Dose rate:** 20-75g/ 10ltr wash water  
APVMA approval #54472

#### Power Pak

Power Pak is a highly concentrated heavy duty chlorinated alkaline detergent for the periodic "bomb" cleaning of butterfat and milk protein residue build-ups. It is suitable for all machine cleaning systems.

**Dose rate:** 200g/10ltrs wash water  
APVMA approval #54471

# Dairy hygiene solutions

## Wash systems

Our people are nearby and are ready to assist you in maintaining, servicing, troubleshooting and supplying your dairy consumables whenever you need us.

### Cleaning Unit C200

A fully automated and versatile cleaning system that is designed to automatically clean any size dairy installation. Water temperature, detergent dose, cleaning duration and water movement are automatically controlled giving the best cleaning result without excess water, detergent or energy consumption - at the push of a button.

### Dosing System ED100

For safe handling and dispensing of liquid detergents, this manual detergent doser draws a pre-set amount of detergent by vacuum into a dosing container ready to be dumped into the wash tub for use.



### Detergent Dispensing

- Semi or fully automatic.
- Easy to install and use.
- 2 or 3 pumps for varied detergent options.
- Safer reduced chemical handling.
- Reduce wastage.
- Peace of mind - correct dose every time.
- Manual drum pumps with colour coded safety straps.

### Cleaning Control Unit T300

The DeLaval cleaning unit T300 is a similar cleaning unit to the Cleaning Unit C200 except it is for fully automated cleaning of the bulk milk tank.

### Benefits

- Full control of cooling and cleaning process
- Highly-efficient cleaning programmes
- Fully automated and programmable
- Can be used with DeLaval VMS™ as well as conventional milking systems
- Remote alert system
- Robust, hard-wearing design







### DeLaval Cleaning Analysis (DCA)

DeLaval Cleaning Analysis is an easy way to determine the cleaning efficiency in your milking machine. Let one of our trained technicians come in and conduct a review of your dairy operation to get real hard data on the performance and operation of your cleaning systems to enable a knowledgeable decision making process allowing us to adjust the influencing parameters of your CIP to reach optimal cleaning results.

To successfully clean milking equipment, detergent solution should be at the right concentration and temperature, and that solution must be in contact with all internal milk contact surfaces for sufficient time. The only way that all pipe surfaces can come into contact with cleaning solutions is if one slug moves through the entire pipeline without breaking during each air injection cycle. DCA analyses the quantity, volume and force of those slugs during all cleaning stages.

# We live milk

**delaval.com**

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VIC 3207, Australia  
**1800 817 199**

**Your Local DeLaval Dealer:**