

Product Guide - Global



SMART &
SUSTAINABLE
DAIRY FARMING





Cleaning and Sanitation Solutions for Dairy Farming

Successfully producing safe milk combines exceptional hygiene and sustainability with an acute awareness of costs.

Producing the safest milk while consumers demand the most natural product possible is no reason for conflict. Our support delivers compatibility without compromise. We ensure correct product usage, effective residue control and improve disease prevention whilst reducing your reliance on antibiotics.

Improving Cash Efficiency and Milk Quality

Cash efficiency is paramount. You need to extract every bit of monetary value by obtaining the going rate for the highest quality milk. In satisfying consumer preferences for safe milk and advancing your livestock's welfare, we deliver a clear return on investment and an increase in your revenues.

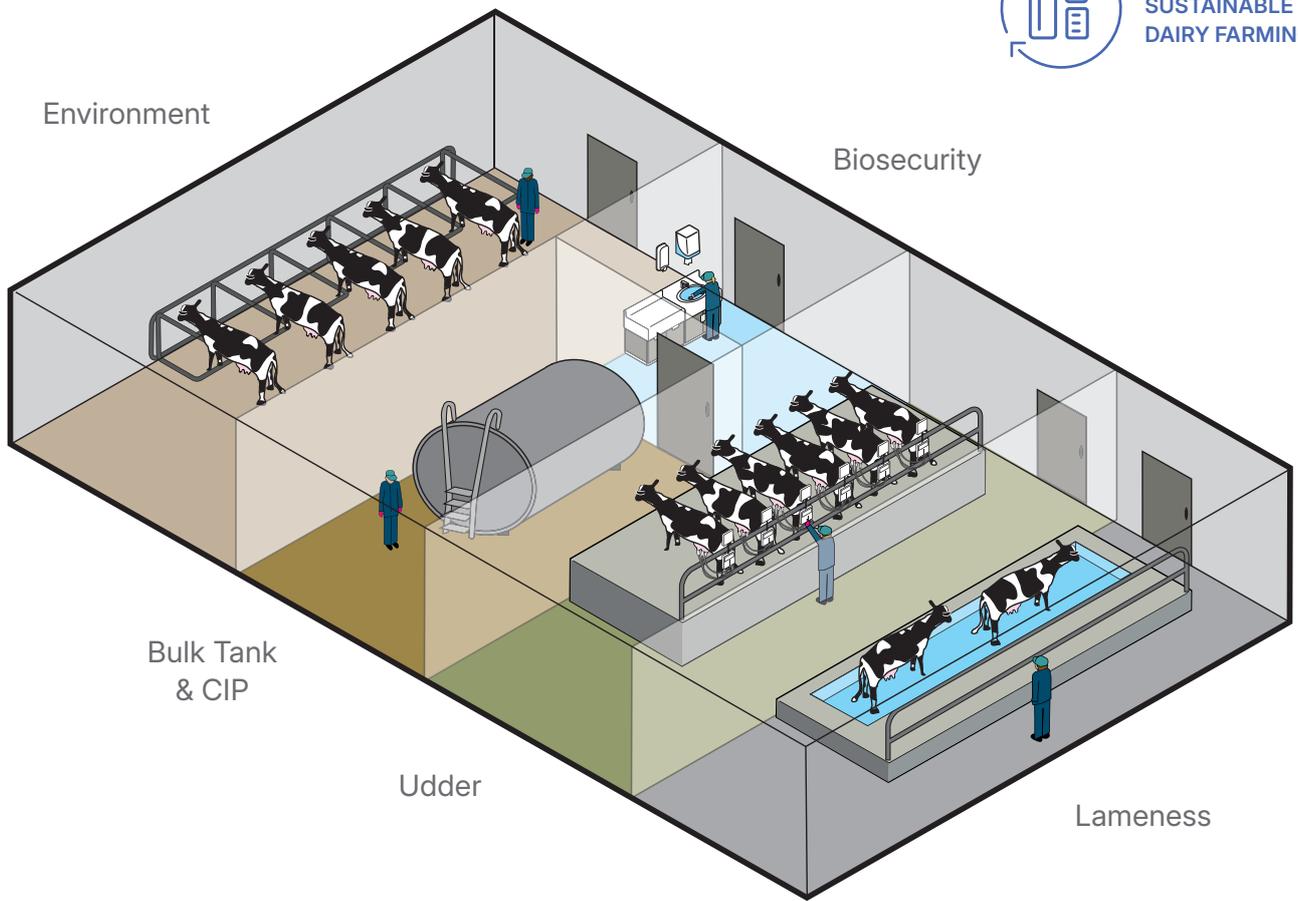
See how our Value Drivers can help you meet your goals:



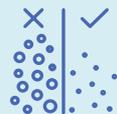
Committed to Safe Milk

Developing safe, world-class chemistry is fundamental. Our efficient solutions avoid harmful or environmentally damaging ingredients and acknowledge the different seasonal challenges that confront farming. Our global insights validate the highest standards of hygiene and nutrition. We support your ambitions in achieving a sustainable environment from our vision of responsible land management. Our approach incorporates the safest methods and materials with unique expertise across the complete food chain to protect against bacteria and disease. We raise the value of milk so you achieve a better result for less.

Farm Map



DEOSAN[®]



Udder Hygiene - Pre Milking Disinfection



What makes a good pre milking teat disinfectant?

- Contains skin friendly surfactants which take the product into all the crevices of the teat skin, ensuring speedy soil removal and disinfection.
- Have proven fast and efficient removal of both gram negative and gram positive bacteria found in the environment.
- Be suitable for all application methods and offer high foaming capabilities to allow lower usage rates.

How will this affect your farm?

- Stimulates milk let down which will speed up the milking process but with less damage to teat ends.
- Removal of soil contamination from skin before milking.

- Improved teat condition protects animal welfare by removing opportunities for mastitis causing bacteria to settle.
- Improved bactoscan results due to the reduction in bacterial loading (including coliforms) from the teat skin.
- The integrity of our range ensures maximum efficacy across all application methods.

Pre Foaming verses Dip?

Foaming application can reduce the amount of product used to around 4ml per cow per milking versus 10ml to 15ml per cow when dipping or spraying. This can equate to using 24 litres of product per month (for 100 cows) as opposed to 60 to 90 litres for dipping and spraying.

Udder Hygiene - Pre Milking



Divdet

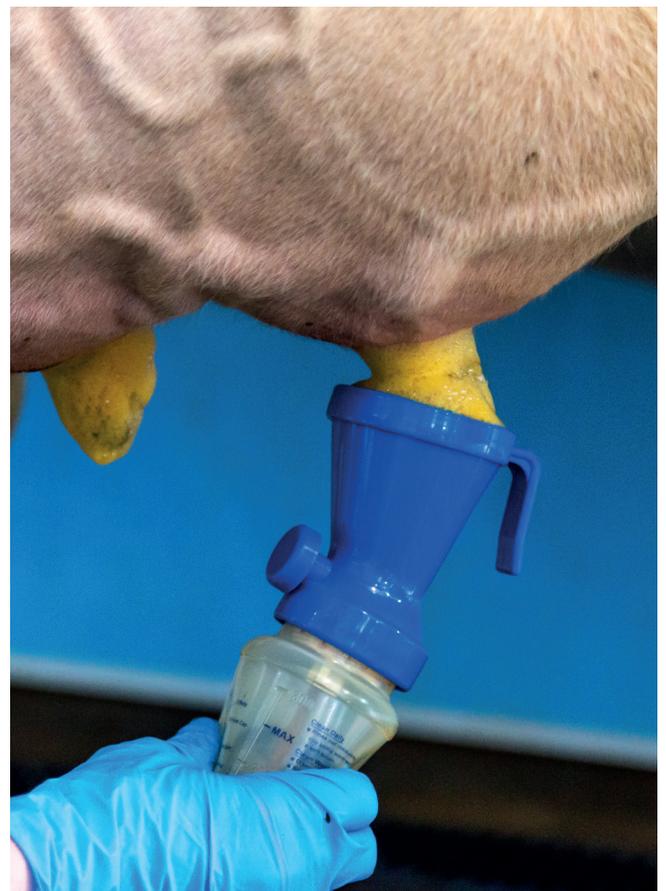
- Concentrated neutral detergent for use as a teat wash / cleaner
- Kind to skin
- Delivers excellent soil removal at low cost in use

Iodine



Deosan Activate Pre

- Concentrated pre milking formulation - Spray / Dip / Foam
- 1:4 concentrate delivers optimum cost in use without reducing quality
- Dual action approach, removes soil swiftly and disinfects teats within 30 seconds of contact with the skin
- Activate technology (Iodine) - delivering immediate log kill - measured against the most exacting standards in the EU
- GB BPR licensed





What does a post milking teat disinfectant do?

Post milking teat disinfectants need to kill bacteria on the teat at the end of milking. They also need to ensure protection between milkings, this includes retaining smooth, hydrated skin condition to discourage the harbouring of bacteria.

Their purpose is simple, to protect the quality of milk through disease prevention. The correct choice of product is defined by the specific needs of your cow management, seasonality and lactation status of your herd.

Chlorhexidine



Deosan Target Barrier

- Ready to use – Dip
- A dark blue/purple premium quality chlorhexidine barrier
- Silky viscous dip for prolonged contact
- Highly visible, confirms complete coverage
- The inclusion of glycerine with allantoin protects teat skin from challenging environmental conditions.
- Efficiency tested: Bacteria; S.aureus, S.uberis, E.coli (EN1656) and yeast (EN1657)

Iodine



Deosan Activate PVP Plus

- Ready to use - Spray / Dip
- Unbeatable post milking teat disinfection
- High emollient content for optimum teat condition in all seasons
- Optimum cling - PVP technology ensures entire teat surface is coated with a silky protective layer
- Activate surfactant complex seeks out every part of the teat, ensuring maximum log reduction
- Achieves official EN1656 and EN1657 test against bacteria and yeast
- GB BPR licensed



Deosan Activate Barrier

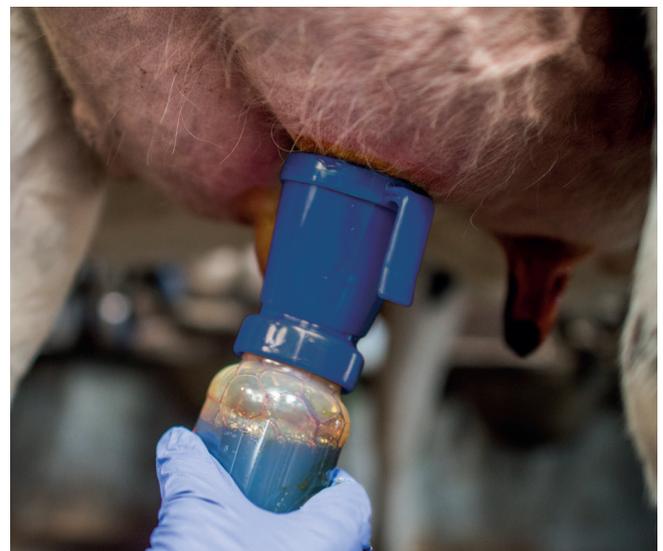
- Ready to use - Dip
- Highly viscous iodine product, easy to apply, highly visible on the teat skin
- Unrivalled environment protection between milkings
- No drip - no waste
- Activate technology ensures total teat coverage and extended retention and protection for the cow as she leaves the parlour and faces environmental challenges
- GB BPR licensed

Iodine Pre Post Concentrate



Deosan Activate Pro

- Pre and Post milking Iodine Concentrate
- Dilution: 1 part product to 4 parts water
- Cosmetic surfactant complex and film former drives optimum coverage and cling
- Glycerine and additional Sorbitol enhances skin conditioning qualities at all stages of the milking process
- Achieves official EN1656 and EN1657 tests against bacteria and yeast
- GB BPR Licensed



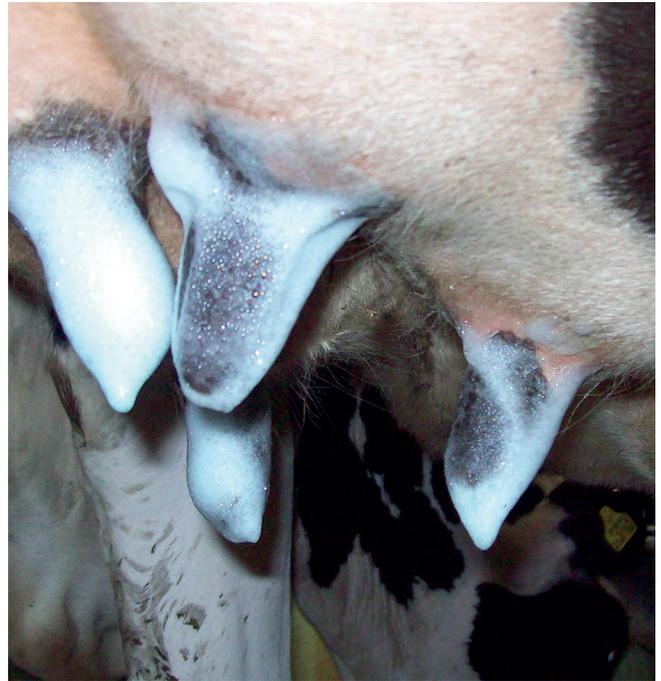


Lactic



Deosan Triathlon

- Ready to use - Spray / Dip / Foam
- 100% Natural chemistry from sustainable resources; using plant based lactic acid biocide
- Amazing soil removal qualities and dead skin cell removal
- Unbeatable bug kill and efficacy
- The future of teat disinfection
- Efficiency tested: Bacteria; S.aureus, S.uberis, E.coli (EN1656) and Yeast (EN1657)
- GB BPR licensed



Chlorhexidine



Deosan Target Teatfoam Plus

- Ready to use - Spray / Dip / Foam
- The markets best Pre Post just got better
- 6000ppm Chlorhexidine - fast acting delivering enhanced killing performance before and after milking.
- Efficiency tested: Bacteria; S.aureus, S.uberis, E.coli (EN1656) and Yeast (EN1657)
- Exceptional soil removal and skin conditioning qualities
- All year round premium skin protection



Deosan Target Pre Post

- Ready to use - Spray / Dip / Foam
- Practical multi purpose teat disinfectant
- Fast acting, skin friendly 6000ppm chlorhexidine
- Ideal pre post meeting environmental challenges, especially during housing
- Efficiency tested: Bacteria; S.aureus, S.uberis, E.coli (EN1656) and Yeast (EN1657)

Iodine



Deosan Activate Pre / Post

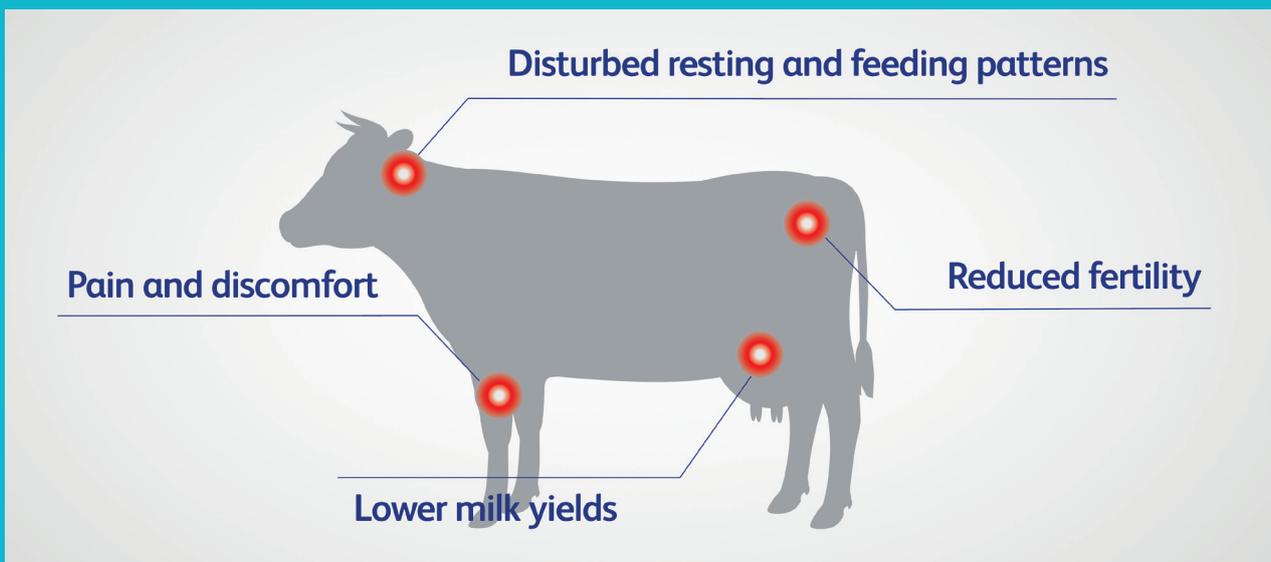
- Ready to use - Spray / Dip / Foam
- Premium formulation designed for use before and after milking
- Rapid action teat cleaning and disinfection in 30 seconds, encouraging stress free milk let down and ensures a seamless milking routine with maximum effect on teat and milk hygiene
- Activate technology delivering immediate log kill - measured against the most exacting EN standards
- Efficiency tested: Bacteria; S.aureus, S.uberis, E.coli (EN1656) and Yeast (EN1657)
- GB BPR licensed



The footbath solution leading the fight against lameness

Restores Hoof Hardness without impacting animal welfare or the value of milk.

Deosan HH+ is a powerful, effective and sustainable solution, which contains Copper Nitrate.



Normal use: Dilute Deosan HH+ at 1% (1 litre makes 100 litres).

5 litres diluted at 1% makes 500 litres.
20 litres diluted at 1% makes 2000 litres.

For Extreme challenge: Dilute Deosan HH+ up to 3%
(1 litre makes 33 litres / 3 litres makes 100 litres).

Empty the bath after 150 to 200 cows.

Walk cows through the bath at least 2 times per 2 days per week (total four times).



Visit www.solenis.com/deosanhoofhygiene for more information or contact your Deosan representative

What makes a good parlour cleaning routine?

- Your parlour cleaning routine needs to tackle both organic soiling and scale (milk stone) deposits that lead to inefficiency and fuel bacterial growth.
- A combination of a detergent / disinfectant and an acidic descaler that are suitable for your farm conditions and equipment.
- Uses ingredients that protects the raw milk and ultimately the finished product and does not attack the expensive components in the parlour.
- Saves you money by reducing utility costs.

How will this impact your business?

- Promotes hygienic milk production – Poor milking plant hygiene can result in increased bacterial levels in milk as well as fat deposits in the plant which can harbour bacteria.
- Maximised milk payments – failure to thoroughly clean the parlour and all equipment will lead to an increase in bactoscan levels.
- Enhances efficiency of the milking plant – removing organic soiling, milk stone and scale from your plant improves efficiency.



Parlour CIP - Chlorine



Deosan TC 86

- The food industry's premium CIP detergent disinfectant
- Proven and used from farm to fork
- Low foaming, broad spectrum biocidal activity with superb cleaning qualities



Deosan Diamond AM

- Liquid detergent with the power of a powder
- High impact cleaner
- Low level chlorine with easy rinse capacity



Deosan Deogen

- Chlorinated caustic CIP detergent / disinfectant
- Hard water tolerant
- Broad spectrum kill



Deosan Red Label Hypochlorite

- The premium Hypochlorite
- High level biocide – formulated for farm use
- Suitable for all areas of farm and milking plant

Parlour CIP - Powders



Deosan Det D90

- Concentrated caustic powder CIP parlour cleaner
- Exceptional butterfat and protein removal
- Suitable for all water hardness
- Lower use rate than standard powders



Deosan D60

- Caustic powder for CIP parlour cleaning
- Highly effective on milk soiling
- Suitable for all water hardness

Manual Cleaning



Deosan Dairy Time

- Perfume free, neutral detergent
- For all manual cleaning applications
- Safe, taint free solution for all surfaces



Deosan Diversol BX II

- Free flowing powder
- For manual cleaning of all milking equipment, tanks and surfaces
- Apply as a powder, paste or solution
- Removes cold milk fats with ease



Diverclean EnduroSafe

- Unique foaming detergent for exceptional cleaning
- High cling, prolongs contact time
- Easy rinse
- Soft metal safe



Shureclean Plus

- Concentrated, neutral detergent
- High foaming manual and soak application
- Safe on all surfaces including soft metals



Specialist cleaning range



Modern dairy farming requires a hygiene supply that fits with each unique farm, works with any level of automation, supports the new market needs such as CO₂ reduction, or caters for the requirements of specific milk pools.

It is no longer enough to offer a single range and assume that because it supports one site it will be suitable for all.

Our market moves quickly and our solutions have developed to meet these needs.

If you supply organic milk, milk for infant formula, have robotic milkers or are already paid for CO₂ emission reductions; to list but a few, we have the offer for you.

Parlour CIP - Chlorine FREE



Deosan Liquid CIP

- Chlorine free parlour CIP detergent
- High impact cleaner
- Low foaming caustic
- Suitable for all water hardness conditions
- Suitable for robotic milking systems



Cipton

- Chlorine free caustic
- Efficient CIP detergent for organic soil removal
- Hard water tolerant
- Low foaming



Venture VC97

- Multi Purpose caustic liquid
- Hard water tolerant
- Ideal for HTST pasteurisers, homogenisers and CIP pipework cleaning and soaking reusable milk filter elements



Deosan Activ

- Highly effective oxidising peracetic acid disinfectant
- For all terminal rinse and surface disinfection applications
- Free rinsing and non-tainting
- Chlorine free

Parlour CIP - Acid



Deosan Acidbrite

- Powerful phosphoric acid detergent for parlour CIP
- High detergency and scale control capability
- Exceptional cleaning even in cold water - drives an energy efficient wash routine
- Unique defoamer; suppresses all foam even in water below 10°C
- Use as a daily wash or as a periodic descale



Deosan Phos Clean PM

- Acidic cleaner and descaler
- Strongest acid clean available but without any of the damaging impact on parlour and liners
- Removes the need for separate descale routine
- Suitable for use on parlours and robotic milking systems



Super Dilac

- Highly effective nitric acid based descaler
- Used extensively across the food industry
- Follow dose instructions correctly to protect parlour



Acidophy

- Complex acid formulation for descale routines

Improving Carbon Efficiency with Deosan Parlour Hygiene routines

Deosan is breaking new ground to help to make dairy better for the environment, and reduce running costs for the farmer through the use of modern hygiene products.

By re-evaluating their choice of chemicals, farmers can reduce carbon emissions by up to 1.6 Metric Tonnes per year, Deosan research has found.

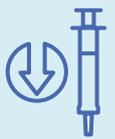
Deosan Acidbrite® is a product designed to work effectively using cold water and contains a foam suppressant complex which ensures a 'flat wash solution' even in water temperatures below 10°C or under high turbulence. This achieves full reach of all surfaces and parts for complete chemical interaction.

The research behind these products has revealed some remarkable carbon efficiency figures; the 1.6 Mega Tonne reduction in carbon emissions per year is equivalent to:

- Growing 26 tree seedlings for 10 years.
- Charging 200,000 smartphones
- Burning 180 gallons of gasoline

In turn, this will also reduce the running costs on the farm, due to not having to heat the water for circulation cleaning. Furthermore, the alternative process will not damage equipment or liners.

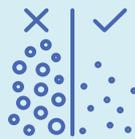
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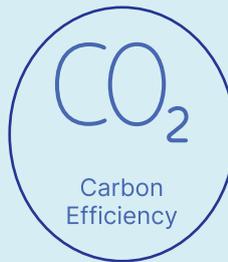
Antibiotic Reduction



Cash Efficiency



Residue Control



Carbon Efficiency



Animal Welfare



Sustainability

Removing one hot wash from your wash routine

In order to remove one hot wash from a twice (or three times) per day parlour wash routine, at least one of the hot washes must reach 60-65°C for at least 3 minutes of the wash, using the correct Chemical concentration, with an end wash temperature of no lower than 54°C.



DEOSAN®

For the cold wash:

- Step 1** Clean external surfaces of milking equipment and set to wash mode.
- Step 2** Rinse the system thoroughly using at least 15 litres of cold water per milking point until the water returns clear of milk soil.
- Step 3** Make up a solution of Deosan Acidbrite at the rate of 5 ml/litre of water.

- Step 4** Circulate for up to 10 minutes. Deosan Acidbrite contains a foam suppressant complex, which ensures all internal surfaces are reached by the solution, even under high turbulence.
- Step 5** Send wash solution to waste and rinse through with at least 15 litres of clean cold water per milking point.



CLEANING OF ROBOTIC MILKERS

For superior cleaning in these specialist areas use a combination of these proven Deosan products to achieve the best milk quality results

1. Deosan Liquid CIP

High strength, specially formulated and proven caustic based liquid

- High caustic delivering robust and effective clean
- Designed to cope with all levels of water hardness
- Dilute at 200 ml per 40 litres of water
- Premium chlorine free option



2. Deosan Phos Clean PM

Highly effective acid clean and descaler based on phosphoric acid

- Compatible with all surface types found in the robot milking machine
- Low foaming and free rinsing
- Dilute at 200 ml per 40 litres of water



3. Deosan Activ

Highly effective with consistent performance oxidising disinfectant based on peracetic acid. Regulated and specifically formulated for these applications

- Highly effective oxidising peracetic acid disinfectant
- For all terminal and surface disinfection requirements for the robot milking machine
- Free rinsing and non tainting



4. Diverclean EnduroSafe

It is important that areas on, around and underneath the robot are kept clean

- Unique foaming detergent
- High cling, prolongs contact time for exceptional cleaning
- Rinses easily
- Soft metal safe



What makes a good Bulk Tank cleaning regime?

- The first defence against bacterial growth in the bulk tank is ensuring that the milk is chilled to below 4°C as rapidly as possible.
- However even with cooling some bacteria, including coliforms, pseudomonas and psychrotrophic organisms grow in cold conditions when there is a medium for them to grow. Cleaning the tank every time it is emptied avoids fat, protein and scale building up on the surface removing the habitat for organisms to grow.
- Tank type and design present different cleaning challenges, our specialists can advise on the best solution for your tank.
- Selecting the correct product is the foundation to lowering bactoscans and yielding higher milk prices.



Deosan TC 86

- The food industry's premium CIP detergent disinfectant
- Proven and used from Farm to Fork
- Forms an integral part of a CIP cleaning regime for bulk milk tanks and silo's.
- Delivers a superb low foaming cleaning solution with excellent broad spectrum biocidal activity



Deosan Phos Clean PM

- Combined acidic cleaner and descaler
- Forms an integral part of a CIP cleaning regime for bulk milk tanks and silo's
- Ensures the prevention of milkstone and scale build up on tank surface
- Low foaming, free rinsing



OSA-N

- Chlorine free CIP detergent disinfectant
- Phosphate free acidic product
- Low foaming and free rinsing
- Suitable for parlour and milk tank CIP



Deosan Coldbrite

- Proven Icebank Tank cleaner
- Suitable for all cold water Ice bank tank washing equipment
- High cling detergency and free rinsing
- Chlorine and Iodine free



What makes good biosecurity and environmental hygiene?

- Good practice here ensures that the areas in which your animals are housed and the people who interact with them are not the source of bacterial growth and transfer.

Calf housing is a particular area of focus here as the stock's defences are naturally weak.

Open Plant Hygiene - Housing, Parlour and Robots



Enduro Super

- Unique multi surface detergent
- Applies with the ease of a foam but clings to surfaces like a gel
- Ensure quick application with less water and unrivalled contact time
- Integral part of an efficient regime for removal of disease challenges such as coccidiosis
- Exceptional cost in use



Diverclean EnduroSafe

- Unique foaming detergent for exceptional cleaning
- High cling, prolongs contact time
- Easy rinse
- Soft metal safe



Powerfoam

- High impact foam detergent
- Easily applied and easily rinsed
- Heavy duty action - unique organic sequestrants and wetting agents directly target heavy soiling
- Unrivalled cost in use



Enduro Eco

- Acidic based foam cleaner descaler
- For use on the external surfaces of Robots, parlours and bulk tanks
- Effective in the removal of hard water scale and protein build ups
- High foam cling
- Freely rinses away
- QAC free

Boot/Housing Disinfection



Zal Perax II

- Surfactant / PAA mix disinfectant
- Effective even in the toughest and dirtiest environments
- Suitable for buildings, boots and vehicles
- Rapid Kill at low dilution rates
- Defra approved

Vehicle cleaning



Ultraclean

- General purpose liquid detergent for vehicle cleaning



To learn more about how Diversey a Solenis Company can help your toughest challenges and more, please visit [solenis.com](https://www.solenis.com)