



SMART &
SUSTAINABLE
DAIRY
FARMING



Product Guide

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:

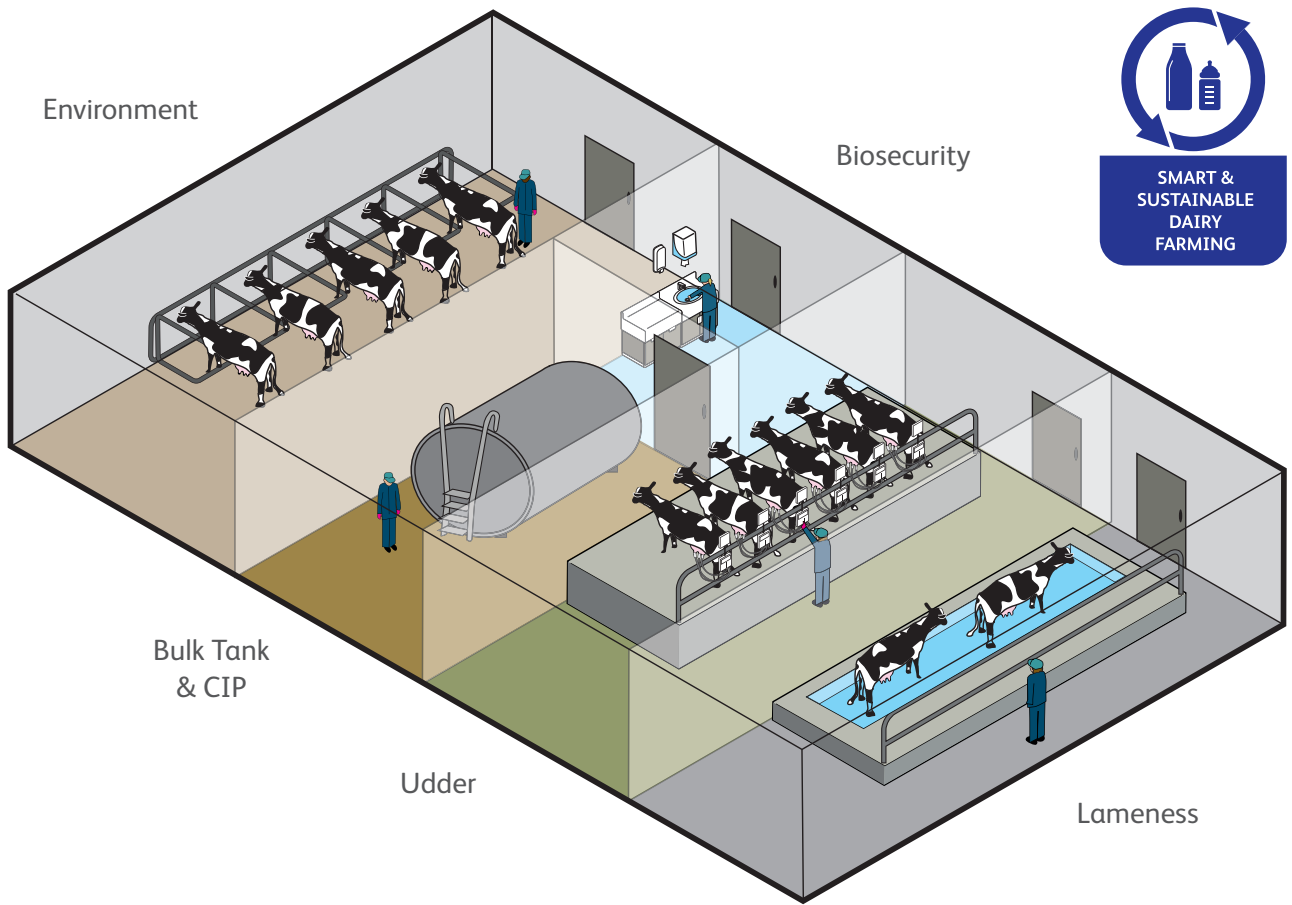


Committed to Safe Milk

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®



**ANTIBIOTIC
REDUCTION**



**CASH
EFFICIENCY**



**RESIDUE
CONTROL**



**CARBON
EFFICIENCY**



**ANIMAL
WELFARE**



SUSTAINABILITY



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?

- Stimulate 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.





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
- BPR licensed



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
- BPR Licensed



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 (Iodine) - delivering immediate log kill - measured against the most exacting standards in the EU
- BPR Licensed



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



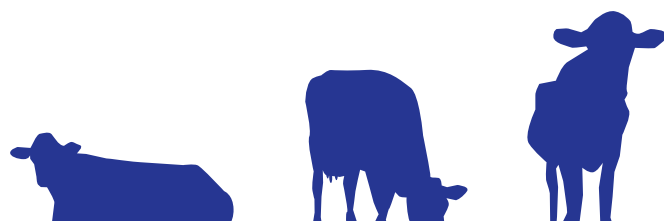
Deosan Teatfoam Advance

- Ready to use - Spray / Dip / Foam
- Multi surfactant combination delivering optimum teat cleaning
- Improves the speed of milking - easy to apply, quickly penetrates and lifts soil
- Chlorhexidine combination delivers fast bacteria kill



Divdet

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





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.

Iodine Products



Deosan Activate Pre / Post

- Ready to use - Spray / Dip / Foam (pre)
- Contains Activate biocide technology
- Delivers 3000ppm available iodine
- Optimal emollient combination – delivers supple teat condition
- A single product designed to provide the best balance of ingredients for both pre and post milking teat disinfection which simplifies the milking routine by reducing the number of products in the parlour
- BPR licensed



Deosan Activate PVP Plus

- Ready to use - Spray / Dip
- Unbeatable post milking teat disinfection
- On going protection between milkings
- High emollient content for optimum teat condition in all seasons
- Optimum cling - PVP technology ensures entire teat surface is coated with a slick protective layer
- Activate surfactant complex seeks out every part of the teat, ensures maximum log reduction of bacteria and yeast
- BPR Licensed



Deosan Activate Barrier

- Ready to use - Dip
- The ultimate barrier - the most viscous iodine product on the market yet still easy to apply - allows practical identification of dipped cows and 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
- BPR Licensed





Deosan Triathlon

- Ready to use - Spray / Dip / Foam (pre)
- 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
- Delivers exceptional teat skin conditioning
- BPR licensed



Chlorhexidine Products



Deosan Target Pre Post

- Ready to use - Spray /Dip/Foam (pre)
- Practical multi purpose pre and post milking disinfectant
- High level 6000ppm chlorhexidine biocide content ensures bacteria and yeast efficiency
- Ideal choice to meet environmental challenges, especially during housing



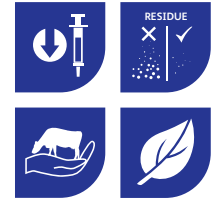
Deosan Teatfoam Advance

- Ready to use - Spray / Dip / Foam (pre)
- Chlorhexidine combination delivers fast bacteria kill
- Dual purpose skin friendly formulation, tackles the critical environmental challenges before and after milking.



Mastocide

- Ready to use - Dip only
- Ultimate thickness, no waste, yet easy to apply
- Wind chap / cold resistant ingredients designed to meet the challenges of all seasons
- Complex biocide formulation, effective kill and exceptionally kind to teat skin



100% NATURAL AND SUSTAINABLE CHEMISTRY... WITH UNRIVALLED EFFICACY



1. DEFEND

- Unbeatable efficacy
- Aggressive bacteria control
- Instant disinfection activity



2. PROTECT

- Proven improvement in teat moisture retention
- 100% natural emollient source
- Exfoliates and removes dead skin cells



3. PRESERVE

- 100% biodegradable formulation from renewable sources
- Developed using natural ingredients
- Food safe



What our clients say:

“ Using Triathlon has delivered on the critical areas - since using I have seen a reduction in both SCC's and Bactoscans. ”

“ It's good to know that whilst ensuring my farm is successful I am supporting the total value of milk. The teat skin condition of the herd was without issue before using Triathlon - since using it has however shown a noticeable improvement. Triathlon fully meets my expectations and it supports the value of milk. *Mr Meyrick, Great Wedlock Farm* ”

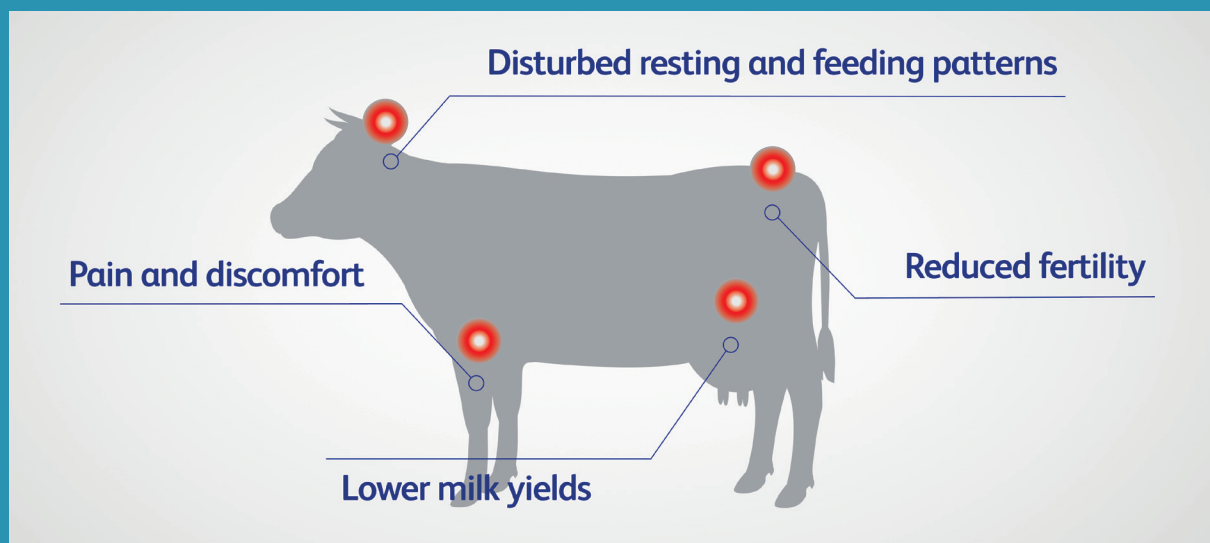
Improve your milk quality and the health of your herd the natural way.
 Contact the Deosan Sales Team to get started:
 call: 0800 013 0789 | email: deosan@diversey.com | search: Deosan Triathlon



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.diversey.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.





TC 86

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



Diamond

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



Deogen

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



Red Label Hypochlorite

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



Liquid CIP

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



Cipton

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



STLS super

- High strength, chlorine free CIP detergent
- Formulated with scale inhibitors
- Free rinsing to support residue control



OSA-N

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



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



Phos Clean Duo

- 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 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



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.

DEOSAN[®]

Chlorine Free Washing

Step 1

Wash external parlour surfaces and set up for washing

Step 2

Rinse the system with a minimum of 15 litres of clean water per milking point, running to waste until the returning solution is clear of milk

Step 3

Make up a solution using a chlorine free product* as per instructions and specific to your farm's requirements and circulate for up to 10 minutes to ensure all areas of the system are reached

Step 4

Send the solution to waste and rinse through with at least 15 litres of clean cold water per milking point

Step 5

Drain the whole system



Speak to your local account handler or contact us to find out the best product solutions available in your country.

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
- Methane emissions of 1 cow

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.

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



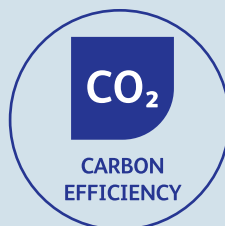
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ANIMAL
WELFARE



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 Duo

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. Enduro Safe

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.

How will this impact your business?

- Selecting the correct product is the foundation to lowering bactoscans and yielding higher milk prices.



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.



Phos Clean Duo

- 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



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.

How will this impact your business?

- The correct process will not only promote a healthy and high yielding herd but in the case of youngstock, will protect your investment in the future. The Deosan approach will deliver maximum defence at minimum cost.



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



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



Zal Perax II

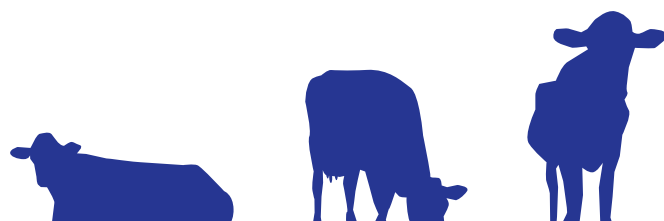
- Surfactant / PAA mix disinfectant
- Effective even in the toughest and dirtiest environments
- Suitable for buildings, boots and vehicles
- Rapid Kill at low dilution rates
- Defra approved

Lameness



Deosan HH+

- Strong copper nitrate foot bath solution
- Improves the strength of horn tissue without over hardening
- Highly soluble, dissolves easily and completely
- Does not cause discomfort to lame cows
- Free from Formalin and QAC



Producer retailing and Milk vending

Recommended Product Range - By Application

Product	Product description	Method
Bottle washing – Auto and semi-automatic washers		
Deosan Divobrite AG503	High caustic Powder detergent	Solution
Deosan Liquid CIP AG303	Strong alkali, low foam, for all water types	Solution
HTST (continuous flow) Pasteuriser cleaning		
Divoflow NBE	De-foamed alkali detergent for all water types	CIP
Pascal VA5	Strong nitric acid descaler	CIP
Batch Pasteuriser cleaning and ALL manual cleaning operations		
Endurosafe VE19	High foam chlorinated alkaline detergent	Soak, Spray, or Foam
Deosan Dairytime	General purpose cleaning detergent	Soak
Shureclean Plus VK9	High foam, neutral concentrate detergent	Soak
Cleaning in place (CIP) – Pipework, fillers and milk tanks		
Deosan Liquid CIP AG303	Strong alkali detergent, low foam, for all water supplies	CIP
Deosan TC86 AG302	Low foaming chlorinated alkaline detergent disinfectant	CIP
General descaling		
Deosan Phos Clean Duo	Phosphoric acid detergent descaler	Soak, Spray, or CIP
Disinfection		
Deosan Red Label Hypochlorite AG311	Versatile hypochlorite disinfectant	Soak, Spray, or CIP
Deosan Activ AG317	Powerful, taint free, peracetic acid terminal disinfectant	Soak, Spray, or CIP
Milk vending		
Deosan Liquid CIP AG303	Strong alkali detergent, low foam, for all water supplies	CIP / Flush
Deosan TC 86 AG302	Low foaming chlorinated alkaline detergent disinfectant	CIP / Flush
Deosan Acidbrite AG313	Premium Phosphoric acid detergent	CIP / Flush
Additional hygiene		
Ultraclean VK3	Vehicle cleaning detergent	Wash/spray
Bacti Hand Soap 8A	Medicated hand soap	Wash
Zal Perax II VT48	Powerful boot disinfectant	Solution
Persil Professional Bio	Overalls	Wash

A full range of milk processing products, hand hygiene and dispensers are also available. For more information contact Diversey Customer Services on +44 (0)800 525 525

DEOSAN®

Take care of your milk during hot weather... look after your hygiene chemicals



Storing dairy hygiene products in hot weather is not necessarily a problem in its self, BUT exposing them to high temperatures and direct sunlight for long periods spells trouble.

Disinfectants, including teat disinfectants and especially thickened products can all be adversely affected, meaning that their performance could be impacted.

Store dairy Hygiene products inside, out of direct sunlight and avoid the potential consequences of poor hygiene results.

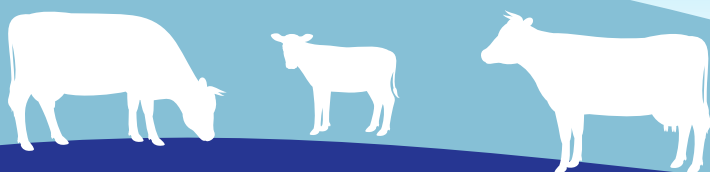
(Speak to one of our team for further details or refer to product safety data sheets for correct storage conditions)



DEOSAN®

Ensure milk hygiene and mastitis levels are kept under control in winter.

Protect your hygiene chemicals from the elements.



Storing dairy hygiene products at cool temperatures is a sensible practice, BUT exposing them to periods of freezing temperatures can undermine their integrity.

Keep dairy hygiene products inside during the winter to protect from adverse winter temperatures and avoid the potential consequences of poor hygiene results, mastitis outbreak or deteriorating skin condition.

Speak to our team if you have any questions.





Diversey's purpose is to **protect** and **care** for people through leading hygiene, infection prevention and cleaning solutions. Diversey has been, and always will be, a **pioneer** and **facilitator for life**.

We constantly deliver **revolutionary** cleaning and hygiene technologies that provide **total confidence** to our customers across all of our global sectors, including: cleaning products, systems and services that efficiently integrate chemicals, machines and sustainability programs. This makes us **unique** among leading global hygiene and cleaning companies.

Everything we do has our customers' needs at its heart and is based on the belief that cleaning and hygiene are **life essentials**.

With over **95 years of expertise**, we safeguard our customers' businesses, contributing to productivity improvements, lower total operating costs and brand protection.

Diversey is headquartered in Fort Mill, S.C., USA. For more information, visit www.diversey.com or follow us on social media.

