



DAIRY HYGIENE PROMOTION 2023

FREE
Thermometer

20%
OFF ALL TEATCARE &
DAIRY DETERGENTS



Tirlán Milk Suppliers can **get up to 20% off** all Teatcare and Dairy Detergents.



Managing milk quality on-farm to ensure that all milk produced has low thermoduric, TBC and SCC results is all about attention to detail.

Aiming to have consistently low Thermoduric and TBC results requires the use of high quality dairy detergent products coupled with the correct wash routine and water temperatures.

For SCC control, using teat care products that are strong enough to address on-farm issues is essential. Achieving the highest standards in milk quality can, at times, present significant challenge – but achieving this on-farm day-to-day ensures that Tirlán dairy products continue to be of top standard and meet customer specifications at all times.

To support this challenge, in 2023, Tirlán is investing directly in milk quality by ensuring that our carefully chosen product range is available to suppliers at the best possible prices by offering a rebate on all dairy hygiene products.

This will ensure you get the best value for money, while assisting in working toward achieving consistently low Thermoduric and TBC results and improved mastitis and SCC control.

The Tirlán listing of the recommended dairy hygiene products are backed by Teagasc research and have been specifically chosen by the Tirlán Milk Quality and Veterinary advisory teams based on proven quality and reliability when used correctly on-farm.

The wide assortment of available products allows you to choose the products most suitable for your herd's approach to dairy hygiene. These products, when used correctly, will assist in keeping TBC, Thermoduric and SCC levels low on-farm.

FOR 2023, TIRLÁN IS OFFERING AN EXCLUSIVE 20% DISCOUNT ON ALL DAIRY DETERGENTS AND TEATCARE PRODUCTS.

Offer details

- ✓ Offer includes upfront discount on all purchases.
- ✓ Further 15% rebate to be paid on dairy hygiene products purchased – available to Tirlán Milk Suppliers only.
- ✓ Offer is available on all purchases made through Tirlán FarmLife Branches, your local Business Manager, our Customer Service Centre or online.

Our Milk Supply and Business Manger Teams are available to support and offer assistance on best practice and dairy hygiene programmes used on farm, making sure you have the right products and routines needed for your environment.



ESSENTIAL - REVIEW YOUR HOT WATER PROVISION



How do Detergents and Hot water work in wash routines?

Caustic detergents remove organic residues from milk (the fats, proteins, carbohydrates (sugars) and typically contains substances such as sodium hydroxide. Usually the higher caustic concentration the more effective the product will be.

Acid products deal with mineral deposits (which are mainly from your water source) such as Calcium, magnesium, iron etc. They tend to contain active ingredients such as phosphoric and nitric acids.

Peracetic acid is an add-on steriliser for final rinsing – it doesn't replace acid detergents or caustic. It is the add-on at the end that will ensure your plant stays sterile between milkings.

You will need different amounts of each of these products to ensure your wash routine works well.

What you are trying to avoid is allowing bacteria to build up a protective bio-films which makes them harder to remove. Where a build up of milk residue occurs on surfaces such as the receiving jar or claw-pieces – this shows your wash routine isn't working and will allow biofilms to build up and harbour thermoduric bacteria.

Key to a good reliable wash routine is to ensure you have sufficient hot water. You need to ensure you have a wash trough that can take the required volume of water – this is vital to success. Where the water volume

isn't enough – the wash water won't be able to take the dirt / milk residue out of the lines and it will get left behind to build up.

The hot wash water temperature is key and must be at 75°C at start point and run to waste at 55°C. Any cooler and you just won't get an effective detergent solution mix and the cleaning won't be effective. A key action is to pre-rinse the lines with hot water as the start of the wash cycle so they are warmed and the detergent wash water stays hot. Your hot wash cycle should only be 8 -10 minutes long.



Wash Routines			
FIRST RINSE	DETERGENT RINSE	FINAL RINSE	PERACETIC ACID RINSE
<p>14 litres of fresh water per cluster unit for the first rinse.</p> <p>This cold water rinse washes out as much milk residue and dirt as possible</p>	<p>9 litres of fresh water per cluster unit for the main detergent wash: this wash cycle eliminates protein and fat from the system.</p> <p>An acid wash rotated here (as per the manufacturers guidelines) will eliminate any milk stone build up and mineral deposits.</p> <p>The acid wash needs to be hot and short – if the water cools down it will not be effective.</p>	<p>14 litres of fresh water per cluster unit for the final rinse: this rinse cleans away any remaining milk residue and any detergent residue.</p>	<p>Ideally then follow with one final rinse and include peracetic acid. This will sterilise the clean plant and will ensure all build up and deposits in the plant are pushed out and ensure the lines are left as clean as possible.</p>

Water Softener

Hard water or mineralised water containing iron etc will impact the detergent efficacy. You will need to use a water softener and possibly have a more frequent rotation of caustic and acid detergents.

Tirlán Water Heating Options

There are several heating options for hot water in the dairy:

- Electrical water heating
- Gas water heating
- Solar Photovoltaic (PV) Unit
- Heat Recovery Unit



Hot Water Checklist

- ✓ Invest in an optimum sized water heater / heat recovery unit.
- ✓ Heat sufficient hot water for your machine and bulk tank – ensure you can wash both on the one day.
- ✓ Have a separate heater for water for the tank and machine in case of breakdown.
- ✓ Temperature should be 75-85°C at start and 45-55°C when finishing circulation.
- ✓ Use a thermometer to check water when it is circulating and when it is in the wash trough to confirm what the wash temperature actually is.



Scan for more information

How much detergent should you use? It depends on the water quantity in your trough.

Calculating the quantity of water used for wash cycles

$$\text{Length (m)} \times \text{width (m)} \times \text{height (m)} = \text{cubic meters (1 cubic meter = 1,000 litres)}$$



- Step 1** To establish the width of tapered troughs: measure (m) the length across the trough at the bottom of the trough B1 and then at the water level B2
- Step 2** Add both measurements and divide by 2 to establish the average width. $(B1+B2)/2 = \text{average width}$
- Step 3** Measure the height (m) of water (red or green line)
- Step 4** Measure the length (m) of the trough
- Step 5** Multiply the width x length x height = cubic meters. 1 cubic meter = 1,000 litres

Target water levels for rinse cycles – 14 litres per milking unit
 Target water levels for the main wash cycle (hot or cold water) – 9 litres per milking unit

Length (m) x width (m) x height (m) = cubic meters (1 cubic meter = 1,000 litres)
 or Length (inches) x width (inches) x height (inches) x 0.016 = cubic meters (1 cubic meter = 1,000 litres)

- Example of calculation on how much detergent should be used**
- 16 unit plant (target 9 to 12 litres a unit for detergent wash)
 - Trough measurement (cubic meters) to water level for the detergent cycle – 37 Height, 42 Width, 113 Length = 175,603
 - Divide 175,603 by 1000 = 175 litres of water in trough (=10.9 litres per unit)
 - Detergent recommended concentration with hot water 0.7%
 - To establish detergent usage rate – multiply 175 litres by 0.7 and divide by 100 = 1.23 litres of detergent



DAIRY DETERGENT PRODUCTS

All detergent ranges have individual recommendations to ensure they are as effective as possible. Ensure you follow directions closely for best results. Consult your Tirlán Milk Quality Manager to clarify which product is best for your parlour and bulk tank type.

20%
OFF ALL TEATCARE & DAIRY DETERGENTS

Grassland Agro



Product Code: 9001959

Unisan Plus Chlorine Free 20Kg

Unisan Plus high performing detergent.

- Powder detergent for circulation cleaning of milking machines
- High caustic powder detergent
- Prilled - less dust
- Moisture proof container which is best stored in a cool dry place
- Keep lid securely on tub when not in use



Product Code: 25L 9118231 / 200L 9092510

Uniscale Descaler 25L/200L

Uniscale Descaler for milking equipment.

- Contains phosphoric and nitric acid
- Prevents rubberware deterioration
- Remove mineral deposits from water



Product Code: 22kg 9085290 / 60kg 9115610 / 220kg 9112745

Hypracid One Chlorine Free 22Kg/60Kg/220Kg

Hypracid One to make your dairy a chlorine free zone.

- Removes bacteria
- Improves TBC and thermotolerant results
- 3-in-1 detergent, descaler and steriliser
- Soft on rubberware
- Can be used daily
- Hypracid One and Hypral One should be used together
- Hypracid One is also an option to work with Kilco Autosan Blue



Product Code: 22kg 9118237 / 230kg 9118239

Hypral One Chlorine Free 22Kg/70Kg/230Kg

Hypral One non chlorine detergent wash.

- 28% caustic liquid and chlorine free
- Improves TBC and thermotolerant results
- Combine with Hypracid One for best results
- Removes and prevents the growth of bacteria
- Can be used daily



Product Code: 10kg 9092990 / 24kg 9001992 / 210kg 9078440

Perfo Grif 10Kg/24Kg/210Kg

Suitable for use in final machine and bulk tank rinsing and also for cluster dipping or back flush systems.

- Active Ingredients: 5% PAA Peracetic Acid
- Disinfects clusters between milkings
- Perfo Grif can also be used in the final rinse



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Diversey



Product Code: 9001939

Deosan Powder Cleaner 20Kg

Specially formulated caustic powder designed for use in hard or soft water.

- 70% caustic powder detergent
- Effectively lifts scale and tough dirt
- Contains binding agents ensure fats are remain in solution during circulation
- Usage rate: 200gms per 40 litres (4 unit parlour)
- Store in a cool dry place, keep lid securely on tub when not in use



Product Code: 20L 9079643 / 200L 9100499

Divosan OSA-N Chlorine Free 20L/200L

OSA-N Chlorine Free is a single liquid product solution for washing bulk tanks and milking machines - a one-stop-shop, 3 in 1.

- Contains nitric acid and glycolic acid
- Cleans-Descales-Disinfects
- Usage rate 280ml per 40 litres of water (280ml for a 4000 litre milk tank or a 4 unit parlour)
- Store in a cool dry place, when in use keep caps tight on the drum



Product Code: DEOSAN PRIME CIP 20L 9120065 DEOSAN PRIME CIP 200L 9121160

Deosan Prime CIP 20L/200L

Prime CIP is a medium hard water tolerant, blended caustic detergent, used for CIP and spray washing applications in the dairy, processed food and pharmaceutical industries.

- Prime CIP is a low foaming liquid caustic detergent suitable for use in medium hard water
- Provides excellent detergency for single stage dairy CIP applications, e.g.
- Low foam under high turbulence makes it easier to rinse and improve cleaning
- Suitable for use in CIP applications under conditions of high turbulence



Product Code: 25L 9036023 / 200L 9079646

Deosan Activ Cluster Dip Liquid 25L/200L

Suitable for use in final machine and bulk tank rinsing and also for cluster dipping or back flush systems.

- Active Ingredients: Peracetic acid 5% PAA
- Disinfects cluster and cups between milkings. Use at 3ml per 1 litre
- Deosan Activ can also be used in the final rinse. Use at 1ml per 1 litre
- Store in a cool dry place, when in use keep caps tight on the drum

KILCO



Product Code: 9063912

Clearway Plus 20Kg

Clearway Plus is a chlorine free caustic powder circulation cleaner for the cleaning of milking equipment. Clearway is a specifically formulated so it can be used in hard water areas.

- 1 year shelf life from date of manufacture
- Contains high levels of sequestrants and 80% w/w sodium hydroxide
- Specifically formulated for use in hard water areas
- Suitable for use in direct-to-line milking parlours
- Keep lid securely on tub when not in use



Product Code: 20L 9099335 / 200L 9099336 / 1000L 9112601

Autosan Blue 20L/200L/1,000L

Autosan Blue is a chlorine free alkaline cleaner that can be used with all milking equipment including robotic and electronic systems.

- Low foaming alkaline circulation cleaner
- Autosan Blue can be used with Autosan Red or Grassland Agro Hypracid One
- Suitable for use in all milking parlours and bulk tanks
- Can be used with all robotic and electronic cleaning systems



Product Code: 20L 9099338 / 200L 9099339

Autoscan Red 20L/200L

Autoscan Red is a low foam phosphoric acid cleaner that can be used with all automated milking equipment including robotic and electronic systems.

- High strength formulation
- No need for additional milkstone remover
- Suitable for use with robotic and electronic cleaning systems
- 2 years shelf life from date of manufacture
- Autoscan Red is designed to use with Autosan Blue - but alternatively Hypracid One can be used instead of Autoscan Red with Autosan Blue



Product Code: 25Kg 9063915 / 200Kg 9088360 / 1000Kg 9117540

Virodax (Peracetic Acid Steriliser) 25Kg / 200Kg

Virodax contains 5% peracetic acid and is a versatile peracetic acid sanitiser, cleaner and acidifier.

- Suitable for use in final machine and bulk tank rinsing and also for cluster dipping or back flush systems
- Broad spectrum disinfectant effective at low temperatures
- Non-foaming and non-tainting
- Recommended for cluster dipping as well as final rinse for milking parlours and bulk milk tanks

Which active ingredient to choose?

Research from Teagasc has shown that teat disinfectant products containing chlorhexidine or a combination of lactic acid and chlorhexidine are most effective against the main mastitis causing bacteria found in Ireland.



TEAT CARE PRODUCTS

Chlorhexidine



Deosan Target Teatfoam Plus 20L/200L/950L

Superb teat disinfectant which contains the highest level of active ingredients that are proven to tackle all forms of mastitis causing bacteria + protect teat skin from adverse weather conditions.

- 6000ppm Chlorhexidine and 1000ppm Amphoteric biocides
- Pre and post-milking
- Glycerine and eucalyptus oil which hydrates and improves teat skin condition
- Rapid disinfection
- Light blue application colour

Product Code: 20L 9130250 / 200L 9129997 / 950L 9130520



Deosan Target Pre Post 20L/200L/950L

Highly effective disinfectant for both housed and grazing cows with High Bubble foam technology and rapid soil removal.

- 6000ppm Chlorhexidine
- Pre and post-milking
- Improves teat skin condition
- Rapid disinfection
- Contains Deosan soil removal technology

Product Code: 20L 9117045 / 200L 9117046 / 950L 9117047



Kilco Summer C Dip 25L / 200L / 1000L

Reliable chlorhexidine disinfectant containing eucalyptus oil for post milking use during summer months.

- 5000ppm Chlorhexidine
- Post-milking
- Eucalyptus oil ideal teat skin emollient during active fly season
- Pink application colour

25L 9113100 / 200L 9113101 / 1000L 9113102



Quatro 20L/200L/1,000L

Chlorhexidine dip with enhanced glycerine and lanolin to deliver improved teat condition.

- 5000ppm Chlorhexidine
- Pre and post-milking
- Complex high emollient level for excellent teat condition
- Rapid disinfection
- Bright pink application colour

Product Code: 20L 9069782 / 200L 9069783 / 1,000L 9069784



Hexa-cel 20L/200L/1,000L

Effective Chlorhexidine disinfectant that contains a high level of active ingredients that are proven to tackle all forms of mastitis causing bacteria.

- 5200ppm Chlorhexidine
- Pre and post-milking
- Complex high emollient level for excellent teat condition
- Rapid disinfection
- Blue application colour

Product Code: 20L 9113271 / 200L 9113272 / 1,000L 9113273



Scan for more information

TEAT CARE PRODUCTS

Chlorhexidine and Lactic acid



NovoDual 25L/200L/1,000L

Robust Chlorhexidine and Lactic acid combination teat disinfectant to give short and long-term broad spectrum coverage of mastitis causing bacteria.

- 2700ppm Chlorhexidine + 4% Lactic Acid
- Pre and post-milking
- Enhanced levels of emollients and skin conditioning agents
- Light green/blue application colour

Product Code: 25L 9099393 / 200L 9099392 / 1,000L 9090059



Duo-cel 20L/200L/1000L

Powerful Chlorhexidine and Lactic acid combination teat disinfectant to give broad spectrum coverage of mastitis causing bacteria.

- 3000ppm Chlorhexidine + 2.5% Lactic Acid
- Pre and post-milking
- High level of emollients to ensure excellent teat condition
- Bright yellow application colour

Product Code: 20L 9069772 / 200L 9069773 / 1,000L 9113270



Novospray 25L/200L/1,000L

Contains a combination of Chlorhexidine and Lactic acid proven to work and be effective as a teat disinfectant to give short and long-term broad spectrum coverage of mastitis causing bacteria.

- 2700ppm Chlorhexidine + 4% Lactic Acid
- Post-milking
- Low drip formulation ensures better coverage of the teat and product stays on the teat forming a thin protective layer upon drying. Enhanced emollients and glycerine provide excellent teat skin conditioning properties
- High visibility – bright blue colour dye
- Contains peppermint oil natural fly repellent

Product Code: 25L 9099395 / 200L 9099394 / 1,000L 9099396



Dual Defence 25L/200L/1,000L

Excellent chlorhexidine and lactic acid based skin conditioning teat disinfectant for outstanding teat hygiene and udder health.

- 10000ppm Chlorhexidine + 4% Lactic Acid
- Pre and post-milking
- High emollient content for optimal skin condition
- Dip, Spray and Foam application
- Added peppermint oil as natural fly repellent

Product Code: 25L 9127570 / 200L 9127571 / 1,000L 9127572

Lactic Acid + Salicylic Acid



Hypred Quick Spray 22Kg/220Kg/1,000Kg

Potent lactic and salicylic acid combination disinfectant which also nourishes and hydrates the teat for improved teat condition.

- 2% Lactic acid + .1% Salicylic acid
- Pre and post-milking
- Suitable in harsh weather conditions as it contains propylene glycol, lanolin and aloe vera to improve teat condition
- Yellow application colour

Product Code: 22Kg 9118230 / 220Kg 9118232 / 1,000Kg 9082315



Virolac Teat Spray 220Kg/1,000Kg

Potent disinfectant containing Lactic and Salicylic acid complex and skin moisturiser.

- 2% Lactic acid + .1% Salicylic acid
- Pre and post-milking
- High levels of hydrating agents and emollients
- Light blue application colour

Product Code: 220Kg 907631 / 1,000Kg 9118234

TIRLÁN MILK SUPPLY TEAM

20%
OFF ALL TEATCARE &
DAIRY DETERGENTS

Region	Regional Milk Supply Manager	Milk Supply Manager	Phone	Area
North	Gordon Grey 086 108 2822	John Fitzpatrick	086 042 6567	Laois
		Andrew Geraghty	086 036 4499	Meath / Westmeath / Offaly / North Kildare / Laois
		John Hennigan	087 260 2087	Meath / Louth / Dublin
		Neville Leary	0044 7704 345 404 or 086 107 4793	Northern Ireland / Cavan / Monaghan / Louth
Mid	Eamonn Comaskey 086 032 6592	Niamh Keane	086 102 1340	North Wexford / East Wicklow
		John Murphy	086 049 6995	North Kilkenny
		Tom Phelan	086 850 3026	South Kilkenny
		Gavin Ryan	087 273 8742	Barrowvale South / Mid Wexford
		Kelly Stephenson	086 036 3388	Barrowvale North
South	Eoin O'Riordan 087 986 3967	Donal Corkery	087 986 3965	West Waterford
		Jerry Cronin	087 246 8065	Castlelyons
		Joe Kehoe	087 265 9728	South Wexford
		Conor Phelan	086 035 2762	East Waterford
		Willie O'Toole	086 027 7230	South Tipperary

Tirlán
Abbey Quarter
Kilkenny
R95 DXR1

LoCall 0818 321 321
www.tirlanfarmlife.com

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