


















Chlorine-Free Dairy Detergent Range



Chlorine-Free Detergents		Usage Rate for Milking Machines							
	Product	6 Unit	8 Unit	10 unit	12 Unit	14 Unit	16 Unit	18 Unit	20 Unit
	AvalKsan Gold CF	A chlorine -free liquid detergent with a unique phosphate free formulation. To be used in conjunction with Aval Platinum Descaler.							
		480 ml	640 ml	800 ml	960 ml	1120 ml	1280 ml	1440 ml	1600 ml
	Multisan CF	A highly effective dual hydroxide chlorine-free circulation cleaner for hard and soft water areas. It is a non-foaming, phosphate free product.							
		360 ml	480 ml	600 ml	720 ml	840 ml	960 ml	1080 ml	1200 ml
	Deosan Liquid CIP	This is a low foaming detergent suitable for every type of water hardness. It is highly effective at removing proteins and lipids from surfaces that come in contact with milk.							
		360 ml	480 ml	600 ml	720 ml	840 ml	960 ml	1080 ml	1200 ml
	Asepto Active	Powerful alkaline (Sodium and Potassium hydroxide), chlorine-free cleaner for milking equipment and milk tanks. Must be used in daily rotation with HorolithActive.							
		400 ml	540 ml	675 ml	810 ml	950 ml	1080 ml	1200 ml	1350 ml
	Asepto powder	An alkaline chlorine-free cleaner for use in all kinds of milking equipment, including cooling tanks. AseptoPowder is readily soluble. suitable for use with all water hardnesses.							
		270g	360g	450g	540g	630g	720g	810g	900g
	Deosan Cold Cleaner	A 70% caustic powder (CF) breaks down milk fats quickly. Contains binding agents, ensuring fats remain in solution during circulation. Works well in hard water areas.							
		240g	320g	400g	480g	560g	640g	720g	800g
	Jetster	A caustic based powder detergent, suitable for hard and soft water areas. Low foaming formulation.							
		270g	360g	450g	540g	630g	720g	810g	900g
	Circodine CF	Activated chlorine-free powder detergent with a low foaming formulation.							
		270g	360g	450g	540g	630g	720g	810g	900g

Acid Descaler Products		Usage Rate for Milking Machines							
	Product	6 Unit	8 Unit	10 unit	12 Unit	14 Unit	16 Unit	18 Unit	20 Unit
	Aval Platinum Descaler	A highly effective liquid acid solution containing a mix of phosphoric and nitric acid. Effective in the removal of scale and milkstone in milking equipment.							
		480 ml	640 ml	800 ml	960 ml	1120 ml	1280 ml	1440 ml	1600 ml
	Super Clean Acid Descaler	A heavy duty phosphoric/nitric acid based descaler. It contains surfactant to rapidly penetrate scale and aid removal. Rapidly removes milkstone and scale deposits.							
		540 ml	720 ml	900 ml	1080 ml	1260 ml	1440 ml	1620 ml	1800 ml
	Deosan Acidbrite	A concentrated phosphoric acid based descaler with added defoaming agents. Highly effective in removing milkstone and scales							
		240 ml	320 ml	400 ml	480 ml	560 ml	640 ml	720 ml	800 ml
	Horolith Cool	A powerful descaling product for the cleaning of milking equipment and milk tanks. Active ingredients are nitric and phosphoric acid.							
		540 ml	720 ml	900 ml	1080 ml	1260 ml	1440 ml	1620 ml	1800 ml
	Horolith Active	HorolithActive is a powerful acidic product with an oxidative ingredient for descaling and cleaning of milking equipment.							
		240 ml	320 ml	400 ml	480 ml	560 ml	640 ml	720 ml	800 ml

All-In-One Products		Usage Rate for Milking Machines							
	Product	6 Unit	8 Unit	10 unit	12 Unit	14 Unit	16 Unit	18 Unit	20 Unit
	Deosan OSA-N	Containing nitric acid and glycolic acid, OSA-N is a single stage product for bulk tanks. Can be used with in conjunction Deosan Liquid CIP in milking machines.							
		340 ml	450 ml	560 ml	670 ml	785 ml	900 ml	1000 ml	1120 ml
	Circo Acid 3	A single stage acid detergent for cleaning and descaling of bulk tanks. Suitable for use as an acid in a caustic detergent/acid program for milking machines. 0.75% rate							
		400 ml	540 ml	675 ml	810 ml	950 ml	1080 ml	1200 ml	1350 ml

CHLORINE FREE MILKING MACHINE WASH ROUTINES

Powder detergent wash routine

(Jester, Aseptopowder, Circodine CF, Deosan Cold Cleaner)

1. Hot wash daily (hot wash can be recycled for following milking once TBCs are low)
 2. Use peracetic acid in the second half of the final rinse after each milking.
- ✓ Once a week swap one of the hot detergent washes for a warm descale wash.

Liquid detergent wash routine

AseptoActive & HorolithActive

- AM Use Aseptoactive CF detergent hot in the morning
 PM Use HorolithActive descaler cold/warm in the evening
 * Use peracetic acid in the final rinse after each milking

Deosan Liquid CIP & Divosan OSA-N

- AM Use Deosan Liquid CIP detergent hot in the morning
 PM Use Divosan OSA-N cold in the evening
 * Use peracetic acid in the final rinse after each milking

AvalKasan Gold Standard CF & Aval Platinum Descaler

- AM Hot wash at recommend rate every morning (hot wash cannot be recycled)
 PM Cold wash at recommended rates every evening
 * Use peracetic acid in the final rinse after every milking
 ✓ Swap out a hot detergent for a warm descale using AvalKasan Platinum descaler at least twice per week.

Multisan CF/ Biocel Supler Clean Acid Descaler

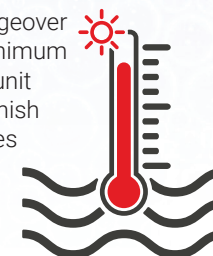
- AM Hot wash at recommend rate every morning (hot wash cannot be recycled)
 PM Cold wash at recommended rates every evening
 * Use peracetic acid in the final rinse after every milking
 ✓ Swap out a hot detergent for a warm descale using Super Clean Acid Descaler at least twice per week.








PERACETIC ACID DISINFECTANT/SANITISER PRODUCTS

Product	Description
Sepent 	A 5% peracetic acid based disinfectant suitable for use in the final rinse and cluster disinfection. Unique formulation with increased acetic acid. Usage rate: 7-15ml per 10 litres of clean water
Cluster XX 	A 10% peracetic acid based disinfectant suitable for use in the final rinse and cluster disinfection. Usage rate: 15 - 30ml per 10 litres of clean water for final rinse sterilising (use the higher rates in areas with hard water)
Deosan Activ 	Deosan Activ is a 5% peracetic acid, for use in the final rinse circulation cleaning for general surface disinfection. Usage rate of 10ml per 10 litres of clean water.
Aval Thermoklense 	A 5% peracetic acid based sanitiser. Usage rate of 10ml per 10 litres of clean water.

Hot Water

Having an adequate supply of hot water is essential in the changeover to chlorine-free. For the main wash in the milking machine a minimum of 9 litres of hot water (75 – 80°C) is required per unit (i.e. a 10-unit machine requires 90 litres of hot water). The hot wash should finish and be removed from the machine once the temperature reaches 40°C (usually after approx. 8-10 mins). Leaving the solution circulating for too long will reduce the benefits of the hot wash. Options for providing hot water on farm include electric, diesel, gas, solar and heat recovery.



BULK TANK WASHING	USAGE RATE FOR BULK MILK TANKS							
Product	4000 L	5000 L	6000 L	8000 L	10000 L	12000 L	14000 L	16000 L
Aval Platinum Descaler 	360 ml	450 ml	535 ml	700 ml	890 ml	1080 ml	1250 ml	1425 ml
AvalKasan Gold CF Detergent 	Alternate AvalKasan Gold Standard CF with Aval Platinum Descaler every 3rd wash at recommended rates							
	360 ml	450 ml	535 ml	700 ml	890 ml	1080 ml	1250 ml	1425 ml
AseptoActive Detergent 	400 ml	500 ml	600 ml	800 ml	1000 ml	1200 ml	1400 ml	1600 ml
Horolith Active Detergent 	Alternate AseptoActive with Horolith Active every 3rd wash at recommended rates							
	200 ml	250 ml	300 ml	400 ml	500 ml	600 ml	700 ml	800 ml
Multisan CF Detergent 	280 ml	350 ml	420 ml	560 ml	700 ml	840 ml	980 ml	1120 ml
Circo Acid 3 	Alternate Multisan CF with Circo Acid 3 (All in one Detergent & Descaler) every 4th wash at recommended rates							
	280 ml	350 ml	420 ml	560 ml	700 ml	840 ml	980 ml	1120 ml
Deosan OSA-N 	All in one Detergent & Descaler							
	280 ml	350 ml	420 ml	560 ml	700 ml	840 ml	980 ml	1120 ml