



Product Name: QUADSEAL Teat Sealant for Dry Cows
APVMA Approval No: 92817/150585

Label Name:	QUADSEAL Teat Sealant for Dry Cows
Signal Headings:	FOR ANIMAL TREATMENT ONLY READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Constituent Statements:	650 mg/g BISMUTH SUBNITRATE
Claims:	For the prevention of clinical and subclinical mastitis in dairy cows during the non-lactating (dry) period and early post-calving.
Net Contents:	120 x 4 g tubes 200 x 4 g tubes 400 x 4 g tubes Illegal to sell tube separately.
Directions for Use:	
Restrains:	DO NOT USE in lactating cows or within 4 days of calving.
Contraindications:	
Precautions:	
Side Effects:	
Dosage and Administration:	During the administration of the product it is important to ensure that infection is not introduced. Accidental introduction of bacteria into the quarter during insertion of the intramammary tube nozzle can result in serious mastitis. Thoroughly clean hands prior to administration and wear clean gloves during administration. Immediately after the last

milking at drying off, prior to treatment with QUADSEAL, the udder should be stripped and each teat thoroughly cleaned with a suitable disinfectant.

Carefully infuse the entire contents of one injector into each teat to form a seal, preventing the ingress of pathogenic bacteria into the udder during the dry period.

After infusion, do not massage or squeeze the teat as this may dislodge the seal.

It is recommended that QUADSEAL be used as part of a herd approach to dry cow management and mastitis control. Cows considered likely to be free of subclinical mastitis and at risk for new infection in the dry period should be given QUADSEAL at drying off. Other animals should be managed in accordance with an approved mastitis control plan or specific veterinary advice.

For practical purposes, selection criteria may be based on the mastitis and cell count history of individual cows, or recognised tests for the detection of subclinical mastitis, or bacteriological sampling. As a guide, where there has been no episode of clinical mastitis and at least three individual cow cell counts are available, cows with all cell counts below 250,000 cells/mL may be given QUADSEAL.

Maiden heifers (first calvers): Administer QUADSEAL approximately 4 weeks prior to calving to reduce the risk of post-calving mastitis.

Use in combination with antibiotic therapy: In cows that have sub-clinical mastitis, QUADSEAL may be used following administration of a suitable dry cow antibiotic treatment to the infected quarter. The dry cow antibiotics should be administered in accordance with the product label and massaged into the quarter. Following administration redisinfect the teat and infuse QUADSEAL as recommended above. After QUADSEAL infusion, do not massage or squeeze the teat as this may dislodge the seal.

General Directions:

Milking machine advice: To reduce the potential for QUADSEAL accumulation in milking machines and reduce the risk of particles entering milk in the vat, thoroughly hand-strip QUADSEAL out of each quarter, 10 to 12 strips per quarter, at the first milking of fresh cows. Where possible, avoid removal of QUADSEAL by the milking machine. Keep milk from fresh cows out of the vat for a minimum of 8 milkings (10 milkings in induced cows) or in line with industry standards designed to minimise colostrums entering milk for processing. If possible, use designated clusters and test buckets during this time to minimise adherence to rubberware and milk lines. Clean milking equipment carefully to prevent particles entering the vat. Change filter socks regularly, particularly if residual teat sealant is visible on the filter.

QUADSEAL is designed to sit in the teat canal during the dry period. This means that the administration process should focus on ensuring that the product does not travel up in the higher udder tissue. This is in contrast to the administration of antibiotic dry cow therapy which is required to be infused into the udder tissue to ensure efficacy and duration of treatment. Care should be taken when administering QUADSEAL to ensure that it stays in the teat canal. Failure to do this may mean that the product has reduced efficacy and may not be fully removed by 8 milkings.

Key Points:

- * Plan for the time and labour that treatment takes.
- * More than one person is often needed to do the job well.
- * Ensure people administering QUADSEAL are trained adequately in the procedure.
- * Keep the number of cows to be treated after any one milking to a manageable number.

QUADSEAL Infusion Instructions:

Thoroughly clean hands prior to administration and wear clean gloves during administration. Immediately after the last milking at drying off, prior to treatment with QUADSEAL, the udder should be stripped and each teat thoroughly cleaned with a suitable disinfectant.

After infusion, do not massage or squeeze the teat as this may dislodge the seal.

1. Hygiene: Ensure animals are appropriately restrained in hygienic conditions. Keep tubes clean and DO NOT immerse in water.
2. Clean and dry: The teats should be clean and dry prior to disinfection. If the teats are not clean, wash and dry prior to disinfection.
3. Disinfection Technique: Wearing gloves, thoroughly scrub teat ends with alcohol impregnated wipes (one per teat) and leave to air dry. First, disinfect the two teats further away, then the two closest. Take care to avoid contamination of disinfected teats.
4. Insertion: Ensure teats are dry before insertion. Take care to avoid contamination of the tube nozzle. Careful insertion of the QUADSEAL tube nozzle with minimum penetration into the teat canal is recommended. Insert QUADSEAL into the teats in the opposite order to disinfection. i.e. closest two teats first, then the two furthest away. While administering, gently close off the top of the teat (closest to the udder) when inserting the tube nozzle to encourage product to remain in the teat cistern and canal, rather than in the udder. Do not massage the teat or udder after insertion of QUADSEAL.
5. Teat Spray: After treating each cow, spray teat with your normal teat sanitiser, and mark treated cows with spray mark, raddle or similar.

Administering QUADSEAL

<Instructions for use of tubes and applicator>

QUADSEAL Removal in Fresh Cows

1. At the first milking, strip each treated quarter at least 10-12 times or until all QUADSEAL has been removed – wear gloves.
2. Keep milk from fresh cows out of the vat for at least 8 milkings after calving (10 milkings for induced cows).
3. Preferably use designated clusters and test buckets for the first 8 milkings. Avoid running milk from QUADSEAL treated animals through milk lines during this time.
4. Change filter socks after each milking. Clean milking equipment according to milk factory guidelines, to minimise potential residual buildup of QUADSEAL.

Key points:

- * You must remove QUADSEAL in fresh cows.
- * Change filter socks after each milking.

This section contains file attachment.

Withholding Periods:	MILK: DO NOT USE in lactating cows or within 4 days of calving. After calving, colostrum or milk from treated dry cows MUST NOT BE USED or processed for human consumption for 96 hours (8 milkings). If premature or unscheduled calving occurs, consult the prescribing veterinarian for advice on handling milk for bobby calves. MEAT: Zero (0) days.
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Trade Advice:	EXPORT SLAUGHTER INTERVAL (ESI): Zero (0) days. Before using this product, confirm the current ESI from Alleva Animal Health on 1-800 ALLEVA (1-800 255 382) or the APVMA website (apvma.gov.au/residues).
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Safety Directions:	May irritate the eyes and skin. Avoid contact with eyes and skin. When using the product, wear disposable gloves. Wash hands after use.
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First Aid Instructions:	First aid is not generally required. If in doubt, contact a Poisons Information Centre (phone Australia 13 11 26) or a doctor.
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First Aid Warnings:	
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Additional User Safety:	Additional information is listed in the safety data sheet (SDS).
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Environmental Statements:	
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Disposal:	Dispose of container by wrapping with paper and putting in garbage.
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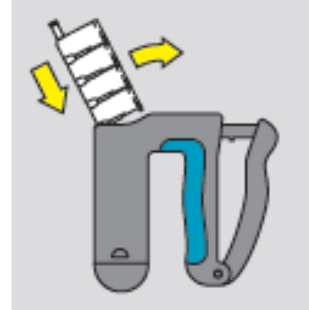
Storage:	Store below 30 °C (room temperature). KEEP OUT OF REACH OF CHILDREN.
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General Directions

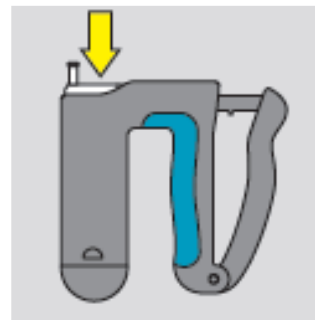
Instructions for use of tubes and applicator

Loading of QUADSEAL Quadshot Applicator

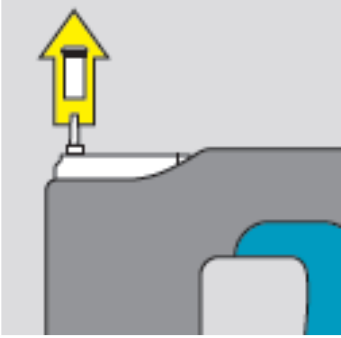

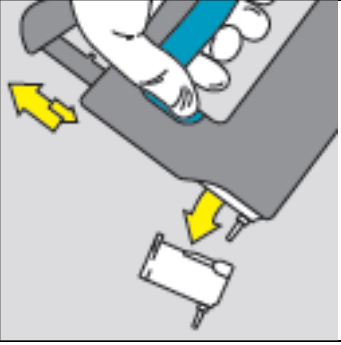
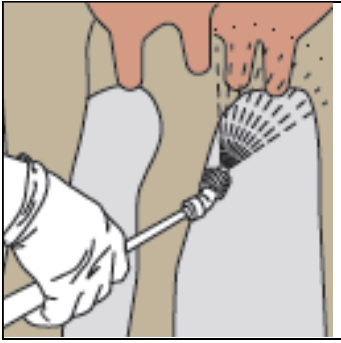
1. Hold the applicator firmly in one hand.
2. With the other hand pick up a clean and unused QUADSEAL tube cartridge (do not remove the overcap). Ensure the nozzle is pointing upward and to the front.





3. Load the QUADSEAL cartridge into the Quadshot applicator magazine by tilting the QUADSEAL cartridge slightly forward so that the lip of the lowermost tube in the cartridge can pass easily behind the retaining notch on the leading edge of the magazine.
4. Push the cartridge down firmly until it is locked firmly in place.
5. The applicator is now ready for use.



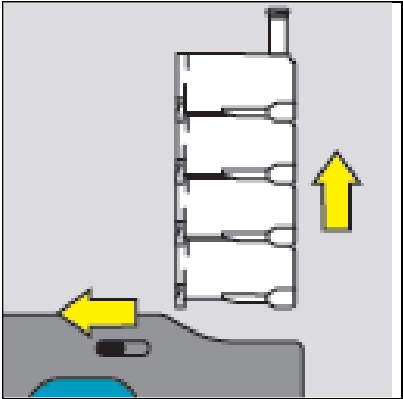
Administration of QUADSEAL with Quadshot Applicator

<ol style="list-style-type: none">1. Wear gloves. Completely disinfect teat ends prior to treatment – a critical step. Use surgical spirit or alcohol teat wipes (one per teat) and leave to air dry. Start with the teats furthest away.2. After the first teat to be treated has been cleaned, load the Quadshot applicator. Ensure the teat is dry before insertion. Take care to avoid contamination of the QUADSEAL nozzle.	
<ol style="list-style-type: none">3. Remove the cap and carefully insert the nozzle of the tube with minimum penetration (up to 3 mm) into the teat canal.4. Infuse the contents of the tube into the teat by gradually squeezing the trigger of the Quadshot applicator while pinching the top of the teat. Once the trigger handle is fully depressed and the contents dispensed it will lock in the forward position. REMOVE THE NOZZLE FROM THE TEAT WITHOUT RESQUEEZING THE TRIGGER TO UNLOCK. While the next teat is being cleaned the spent tube will serve as the overcap for the next tube to be used. Do not massage the teat after infusion. The applicator can then be kept at the ready.	
<ol style="list-style-type: none">5. Clean the next teat to be treated.6. Pick up the applicator and give the trigger a gentle slight squeeze to unlock and release the spent tube (which has acted as a temporary cap) from the magazine. The nozzle of the fresh tube is now exposed and the applicator is ready to be used to treat the teat in the same manner described above.7. Continue in the same sequence until all four teats have been treated.	
<ol style="list-style-type: none">8. After treating each cow or heifer, spray teat with a teat sanitiser solution. DO NOT massage the teat or udder. QUADSEAL must remain in the lower part of the teat. Mark treated cows clearly.9. DO NOT allow cows to lie down on bare ground or in soiled areas for two hours after treatment. Once the group has been treated, walk cows quietly to a clean pasture and avoid activity that may encourage excessive soiling or movement of the udder. Try to minimise the distance walked.	

Using QUADSEAL with Blind Teat Cows

<ol style="list-style-type: none">1. It is a simple procedure to use QUADSEAL to treat cows with only 3 functioning teats.2. Once the first functioning teat has been cleaned simply load the Quadshot applicator with only the lower three QUADSEAL tubes pushed down into the magazine.	
<ol style="list-style-type: none">3. Pull the uppermost tube from the top of the QUADSEAL cartridge (with the cap retained on the tube).4. Safely store away the removed and capped tube. It can be saved for later use.5. Treat the three teats as in the manner described above.	

Cleaning the Quadshot Applicator

<ol style="list-style-type: none">1. Should Quadshot applicators become dirty during application they should be removed and not used until appropriate and thorough cleaning and drying has taken place.2. As with any intramammary syringe DO NOT ATTEMPT TO CLEAN DIRTY UNCAPPED TUBES. These should be discarded and not used. <p>To clean the Quadshot applicator the first step is to unload the applicator by pulling the magazine release mechanism to the rear. The unused tubes can then be removed.</p>	
<ol style="list-style-type: none">3. Clean under running water followed by drying and spraying with disinfectant. Pay particular attention to the magazine area. <p>It is useful to have a number of applicators available at the start of a treatment session so that applicator cleaning during the session is avoided.</p>	