



Product Name: MARKS-MIN INJECTABLE TRACE MINERAL WITH VITAMIN B12 FOR  
 APVMA Approval No: CATTLE 87283/122204

Label Name:	MARKS-MIN INJECTABLE TRACE MINERAL WITH VITAMIN B12 FOR CATTLE
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Signal Headings:	<p>POISON</p> <p>KEEP OUT OF REACH OF CHILDREN</p> <p>FOR ANIMAL TREATMENT ONLY</p> <p>READ SAFETY DIRECTIONS BEFORE OPENING OR USING</p>
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Constituent Statements:	<p>26.7 g/L ZINC AS ZINC DISODIUM EDTA</p> <p>10 g/L COPPER AS DISODIUM COPPER EDTA</p> <p>6.7 g/L MANGANESE AS DISODIUM MANGANESE EDTA</p> <p>3.3 g/L SELENIUM AS SODIUM SELENATE</p> <p>1.4 g/L CYANOCOBALAMIN</p>
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Claims:	<p>Chelated trace element injection for beef and dairy cattle deficient in and/or responsive to copper, manganese, zinc, selenium and/or vitamin B12 supplementation.</p> <p>MARKS-MIN INJECTABLE TRACE MINERAL WITH VITAMIN B12 FOR CATTLE contains selenium, copper, zinc, manganese and vitamin B12, which are required for optimal health, production and fertility. Sub-optimal trace mineral and vitamin B12 status at calving, mating and drying off has been shown to negatively impact production, reproduction and health. Optimizing trace element status relying solely on oral supplements may fail as a result of variation in individual intake and reduced absorption because of antagonism of other ration components and minerals to these essential trace elements. Using an injectable supplement can improve trace mineral and vitamin B12 status at these critical times, promoting a healthy immune system, which is important in resisting disease, and has a positive impact on reproduction.</p> <p>Selenium has a role in: Preventing cellular oxidation, Disease resistance, Muscle function, Reproduction / fertility, Spermatogenesis, Embryo survival, Placental retention.</p> <p>Zinc has a role in: Cell division, Maintaining the integrity of skin and mucous membranes, hair and hooves and in wound healing, Lung function, Bone and cartilage development, Disease resistance, Reproduction / fertility, Spermatogenesis, Placental retention, Udder function.</p> <p>Copper has a role in: Iron metabolism, Bone development, Maintenance of elastic connective tissue, Blood formation, Disease resistance, Reproduction / fertility, Placental retention.</p> <p>Manganese has a role in: Protein metabolism, Disease resistance, Bone, cartilage and connective tissue development, Reproduction / fertility, Ovulation, Spermatogenesis, Embryo survival.</p>
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	Vitamin B12 has a role in: Energy metabolism, DNA synthesis, Red blood cell production, Nervous system function, Reproduction / fertility.
Net Contents:	1 L 500 mL
Directions for Use:	Not applicable
Restrains:	Not applicable
Contraindications:	<p>This product is contraindicated for use when selenium intake from pasture is high or selenium is provided by other means (such as top dressing, vaccine, pellets or selenium drenches) if blood selenium levels at treatment are high.</p> <p>Excessive copper is toxic. Do not administer unless copper deficiency has been confirmed. To determine selenium and/or copper status, users are advised to consult their veterinarian.</p> <p>This product is contraindicated for use in animals that are dehydrated or unwell.</p>
Precautions:	<p>Do not administer to severely debilitated cattle.</p> <p>Do not administer to cattle suffering from liver disease.</p> <p>Do not treat thirsty or exhausted cattle. Allow cattle access to water after treatment.</p> <p>Minerals such as copper, cobalt, selenium, iron, manganese and molybdenum compete with each other for metabolically important processes in the animal. Users should seek veterinary advice before treatment.</p>
Side Effects:	Cattle may show slight discomfort on injection. A transient local swelling may be observed at the site of injection.
Dosage and Administration:	<p>Following withdrawal of the first dose, unused product should be discarded after 9 months.</p> <p>Administer to cattle by subcutaneous injection.</p> <p>Dairy and Beef Cattle:</p> <p>Animal Age / Injection dose rate</p> <p>Up to 1 year / 1.5 mL/50 kg</p> <p>From 1 – 2 years / 1.5 mL/75 kg</p> <p>Over 2 years / 1.5 mL/100 kg</p> <p>Suggested Supplementation program:</p> <p>Bulls: 3 months before joining, At joining</p> <p>Beef cows: 4 weeks before mating, 4 weeks before calving</p> <p>Dairy cows: 4 weeks before calving, 4 weeks before mating or insemination, 4 weeks before drying off</p> <p>Calves: At marking, At weaning</p> <p>Heifers: Every 3 months, 4 weeks before mating</p> <p>Additional: Every 2 months in wet conditions</p> <p>Check the accuracy of the applicator before and during treatment.</p> <p>DO NOT re-treat cattle for 8 weeks after last treatment.</p> <p>Treatment frequency depends on the nutrient status of your herd. Consult your veterinarian or animal health advisor for supplementation advice specific to your situation.</p>

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General Directions:	<p>This product must not be applied at a rate greater than the amount shown on the label. It is important that cattle are dosed accurately according to their individual body weights. Caution: Avoid carcass damage.</p> <ol style="list-style-type: none"><li>1. Sterilise all injection apparatus by boiling (or equivalent) before use. Avoid use of strong disinfectants on apparatus.</li><li>2. Maintain cleanliness at all times.</li><li>3. Keep needles sharp and clean. Replace frequently.</li><li>4. Use needles of appropriate gauge and length.</li><li>5. As far as possible, avoid injection of cattle during wet weather or under dusty conditions.</li><li>6. This product should be injected only under the skin.</li><li>7. If possible inject high on the neck behind the ear.</li></ol>
Withholding Periods:	<p>MEAT: Zero (0) days. MILK: Zero (0) days.</p>
Trade Advice:	<p>EXPORT SLAUGHTER INTERVAL (ESI): Zero (0) days. Before using this product, confirm the current ESI from the registrant on 1800 808 691 or the APVMA website (<a href="http://www.apvma.gov.au/residues">www.apvma.gov.au/residues</a>)</p>
Safety Directions:	<p>May irritate the eyes and skin. Avoid contact with eyes and skin. Wash hands after use.</p>
First Aid Instructions:	<p>If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If skin contact occurs, remove contaminated clothing and wash skin thoroughly.</p>
First Aid Warnings:	<p>Not applicable</p>
Additional User Safety:	<p>Additional information is listed in the Safety Data Sheet. While product is well tolerated in cattle, there is a risk of injury to humans associated with accidental self-injection. Care should be taken to avoid needle stick injury when injecting this product.</p>
Environmental Statements:	<p>Not applicable.</p>
Disposal:	<p>Dispose of empty container and packaging by wrapping with paper and putting in garbage. Discarded needles/sharps should immediately be placed in a designated and appropriately labelled 'sharps' container.</p>
Storage:	<p>Store below 30°C (Room temperature) in original container, in a dry place. Protect from light. Keep container well closed.</p>