

EZE- GRAZE POWDER

Reg. No. V26646 Act 36/1947
Namibia Reg. No. N-FF3504

STORAGE INSTRUCTIONS:

Store in a cool place.

COMPOSITION:

Polyethylene glycol 930 g / kg
Polyvinylpyrrolidone (PVP) 10 g / kg
Calcium Hydroxide 10 g / kg
Ethyl concentrate (molasses solids) 50 g / kg

INDICATIONS:

EZE-GRAZE is a specialised formula designed as a drinking water and infeed additive, which assists in improving animal digestive processes and results in more efficient nutrient utilisation. It is particularly useful under winter and drought conditions, or when grazing is in short supply. It is normally during these drier times that the condition of the livestock deteriorates even though there is still a substantial amount of nutrients available in the surroundings. Most of the nutrients are in the form of browse and less palatable grasses.

In winter when grazing is limited and the food resources become depleted, the cattle are faced with a number of problems. Fenced land and high stocking densities result in rapid depletion of grazing. In winter animals are forced to supplement their food by browsing. When leaves are ingested, certain chemicals within the leaves affect the digestive process, causing the following problems:

- **Tannins:** Condensed tannins combine with proteins in the digestive tract to form a condensed tannin / protein complex, which deprives the animal of valuable protein. This protein is lost as it is not digested and passes out with the tannin in the dung.
- **Hydrolysable tannins:** These are small molecules which are able to pass from the intestine into the blood. They are carried to the liver where they block the action of the detoxifying enzymes. The metabolites of these hydrolysable tannins are potentially toxic and may even cause death.
- **Terpenes:** The most important terpenes are the oleoresins and resins. When ingested these resins interfere with the action of the proteolytic enzymes responsible for normal protein digestion. Even if tannins were not a factor, the animal would still be affected because of the action of resin.
- **Digestive malfunction:** As a result of the interaction of the tannins, hydrolysable tannins and terpenes, as well as other chemicals released by the plant tissue, the digestive process is slowed down, the animal loses its appetite and becomes lethargic. The dung is very dark, dry and hard. As a result the animals often drink a large amount of water and remain close to the watering point. The formation of tannins/resins is the plants' natural defense mechanism and production of these may be increased in response to browsing by animals.

ACTION OF EZE-GRAZE:

- The ingredients of EZE-GRAZE break the condensed tannin/protein complex to release proteins, which are essential for the action of the micro flora in the rumen as well as for the digestion of cellulose.
- EZE-GRAZE prevents the absorption of the hydrolysable tannins.
- The structure of resin is modified, which then neutralises their negative effect on proteolytic enzymes.
- EZE-GRAZE allows the intestine to absorb vital nutrients more efficiently.

OTHER EFFECTS OF EZE-GRAZE:

- Leaf intake of normally browsed plants will be increased considerably together with plants not normally eaten.
- Increased grazing of less palatable grasses.
- Digestion is more active.
- Dung will become softer with a green consistency.
- Game animals will also benefit especially in drought conditions.

WARNINGS:

Keep out of reach of children, uninformed persons and animals.

Although this remedy has been extensively tested under a large variety of conditions, failure thereof may ensue as a result of a wide range of reasons. If this is suspected, seek veterinary advice and notify the registration holder.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

When adding to the drinking water:

Determine the volume of water tank / trough.

Divide the volume by the estimated water intake per head per day.

Add 1 gram EZE GRAZE accordingly

$$\frac{\text{Tank volume } 1}{40} = \frac{\text{grams EZE-GRAZE}}{\text{(initial fill)}}$$

Tank volume

$$= \pi \times r^2 \times h$$

$$= \frac{22}{7} \times \frac{[\text{diameter}]^2 \times \text{height}}{2}$$

Thereafter add 1 gram per day for every animal drinking from the tank (make provision for game). EZE-GRAZE must be added daily to drinking water at recommended rates.

Mix contents into water to provide 1 - 4 g of product per animal daily. It is estimated that cattle, for example, consume 20 - 30 liters of water daily. The required dose will be provided by mixing 10 g (4 level teaspoonfuls or 1 heaped measuring scoop, as provided) in 200 ℓ of water.

When adding to feed:

Mix contents into the feed to provide 1 - 4 g of product per animal daily.

The use of EZE-GRAZE should not encourage overstocking.

WHAT IS IN IT FOR A FARMER?

EZE-GRAZE is a cost-effective treatment.

Save on extra purchase of supplementary feed.

Improved use of total available feed resources.

May also be used for game animals.

All ingredients are biodegradable.

Easy to use.

Increase digestibility of browse.

Can be used for ruminants.

Your cattle cannot afford to be without EZE-GRAZE this winter.

Botswana Listing No.: BV2100189/A/B
Category of Distribution: GSM



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EZE- GRAZE POEIER

Reg. Nr. V26646 Wet 36/1947
Namibia Reg. Nr. N-FF3504

BERGINGSAAWYSINGS:

Stoor in 'n koel plek.

SAMESTELLING:

Poliëtileen glikol 930 g / kg
Polyvinylpyrrolidone (PVP) 10 g / kg
Kalsium hidroksied 10 g / kg
Etiel konsentraat (molasses vastestowwe) 50 g / kg

INDIKASIES:

EZE-GRAZE is 'n gespesialiseerde formule, ontwerp as n drinkwater en voer toevoeging, wat help in die verbetering van diere se verteringsprosesse en het beter voedingstof benutting tot gevolg. Dit is veral nuttig onder winter en droë toestande, of wanneer weiding nie volop beskikbaar is nie. Dit is gewoonlik in hierdie droëer tye dat die toestand van die vee verswak, selfs al is daar steeds 'n aansienlike hoeveelheid voedingstowwe beskikbaar in die omgewing. Die meeste van die voedingstowwe is in die vorm van blare en minder smaaklike grasse. In die winter wanneer weiding en voedsel bronne beperk raak, is daar 'n aantal probleme wat die diere in die gesig staar. Omheinde land en hoë vee populasie lei na vinnige uitputting van weiding.

In die winter word diere gedwing om hulle kos aan te vul deur addisionele voeding soos bv. blare in te neem. Wanneer blare ingeneem word, is daar sekere chemikalieë in die blare wat die verteringsprosesse affekteer, en die volgende probleme veroorsaak:

- **Tanniene:** Gekondenseerde tanniene verbind met proteïene in die spysverteringskanaal om 'n verkorte tannien / proteïen kompleks te vorm, wat die diere ontnem van waardevolle proteïene. Hierdie proteïene gaan verlore aangesien dit nie verteer word nie en saam die tannien uitgeskei word in die mis.
- **Hidroliseerbare tanniene:** Hierdie is klein molekules wat in staat is om deur die derms na die bloed te beweeg. Dit word na die lewer geneem waar dit die werking van detoksifiserende ensieme blokkeer. Die metaboliëte van hierdie hidroliseerbare tanniene is potensieel toksies en kan ook dood van die diere veroorsaak.
- **Terpene:** Die belangrikste terpene is oleo-harse en harse. Wanneer hierdie harse ingeneem word, meng dit in met die aksie van ensieme wat verantwoordelik is vir proteïen vertering. Selfs al was tanniene nie 'n faktor nie, sou die diere steeds negatief beïnvloed word deur die werking van die harse.
- **Disfunksie van die spysverteringskanaal:** As gevolg van die interaksie van die tanniene, hidroliseerbare tanniene en terpene, sowel as ander chemikalieë wat deur die plantweefsel vrygestel word, word die spysverteringsproses vertraag, die diere verloor sy eetlus en word traag. Die mis is baie donker, hard en droog. Gevolglik drink die diere dikwels groot hoeveelhede water en bly naby aan die waterpunt. Die vorming van tanniene / harse is 'n plant se natuurlike beskermings-meganisme en meer van hierdie stowwe word gevorm indien die plante gevreet word deur diere.

AKSIE VAN EZE-GRAZE:

- Die bestanddele van EZE-GRAZE breek die verkorte tanniene / proteïene kompleks af om die proteïene vry te stel, wat noodsaaklik is vir die werking van die mikroflora in die rumen sowel as vir die vertering van sellulose.
- EZE-GRAZE verhoed die absorpsie van hidroliseerbare tanniene.
- Die struktuur van die harse word verander, wat die negatiewe effek op die proteolitiese ensiem neutraliseer.
- EZE-GRAZE laat die derms toe om die noodsaaklike voedingstowwe meer effektief te absorbeer.

ANDER EFFEKTE VAN EZE-GRAZE:

- Blaar inname van plante wat normaalweg geëet word, sal aansienlik verhoog, tesame met plante wat nie normaalweg geëet word nie.
- Verhoogde inname van minder smaaklike grasse.
- Verbeterde vertering.
- Mis sal sagter en groen voorkom.
- Wild sal ook baat, veral in droë toestande.

WAARSKUWINGS:

Hou buite bereik van kinders, ongeligte persone en diere.

Alhoewel hierdie middel breedvoerig onder 'n wye verskeidenheid van toestande getoets is, mag dit faal as gevolg van verskeie redes. Indien dit vermoed word, raadpleeg 'n veearts en verwittig die registrasiehouer.

GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS AANGEDUI.

Wanneer by water gevoeg word:

Bepaal die volume van die watertank of trog.

Deel die volume deur die beraamde water inname per diere per dag.

Voeg 1 gram EZE-GRAZE dienooreenkomstig by.

$$\text{Tenk volume 1} = \frac{\text{grams EZE-GRAZE}}{40} \quad (\text{aanvangsvulling})$$

Tenk volume

$$= \pi \times r^2 \times h$$

$$= \frac{22}{7} \times \frac{[\text{deursnee}]^2 \times \text{hoogte}}{2}$$

Meng die inhoud in die drinkwater om 1 - 4 g produk per diere per dag te voorsien. Dit word beraam dat beeste, byvoorbeeld, 20 - 30 liter water per dag inneem. Die vereiste dosis sal verskaf word deur die vermenging van 10 gram (4 gelykval teelepels of 1 opgehoopde maatlepel, soos voorsien) in 200 l water.

Wanneer by voer gevoeg word:

Meng die inhoud in die voer om 1 - 4 g produk per diere per dag te voorsien.

Die gebruik van EZE-GRAZE sal nie verhoogde weidingsdruk tot gevolg hê nie.

WATTER BAAT KAN DIE BOER VIND?

EZE-GRAZE is 'n koste effektiewe behandeling.

Bespaar op ekstra onkoste vir byvoeding.

Verbeterde benutting van totale beskikbare voer bronne.

Kan ook gebruik word vir wild.

Alle bestanddele is bioafbreekbaar.

Maklik om te gebruik.

Verhoogde verteerbaarheid van blare.

Kan gebruik word vir herkouters.

Jou beeste kan nie bekostig om sonder EZE-GRAZE deur die winter te gaan nie.



Registrasiehouer: Kyron Animal Health (Edms) Bpk., Reg. Nr. 2004/021847/07, Eenheid 45C, 45 Parkview Straat, Highway Business Park, Rooihuiskraal Uitbr. 31, Centurion, 0157, Suid Afrika. Tel: 0861 247 463