



Tiger[®] Trace Grain

Sulphur (S) / Swael	650 g/kg
Copper (Cu) / Koper	7 g/kg
Iron (Fe)/ Yster	10 g/kg
Manganese (Mn)/ Mangaan	7.5 g/kg
Zinc (Zn) / Sink	90 g/kg

FERTILIZER GROUP 2 MISSTOF GROEP 2

Mass/ Massa
1 Metric Ton
25 kg

BATCH NO / LOTNOMMER:

DATE OF MANUFACTURE / DATUM VAN VERVAARDIGING:



Registration Holder / Registrasiehouer:

Nulandis® (A division of AECL Limited)/ ('n Afdeling van AECL Beperk)

Reg. No./Nr 1924/002590/06

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Tiger® is the registered trademark of Tiger-Sul Products (Canada) Co.

UN No. /VN Nr. 3077 . ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

Product Description:

Tiger Trace Grain is a new formulation comprising of a combination of granular micronutrients that offers several improved features over conventional micronutrient sources, with improved handling, minimum to no dust and uniform sizing.

Tiger Trace Grain is a unique, micronutrient fertilizer that delivers agronomical and economically, and provides excellent handling characteristics.

Tiger Trace Grain provides a cost effective method of correcting micronutrient deficiencies.

Application and Usage:

Tiger Trace Grain, when used as a part of a balanced fertilizer program, can provide a season-long source of iron, copper, manganese and zinc. **Tiger Trace Grain** can be applied alone or blended with granular fertilizers. The amount required should be based on agronomic recommendations from soil tests, and tissue analysis. Consult an agronomic consultant regarding micronutrient deficiencies if unsure of the symptoms.

General:

The following factors are required for the micronutrients to convert into a plant available form:

1. **Microbial activity** – *Thiobacillus* bacteria is required to assist with the oxidation of the **Tiger Trace Grain** product. Once oxidised, the micronutrients are in a sulphate form and available for plant-uptake through the root system. Most soils contain sufficient *Thiobacillus* populations.
2. **Particle Size** – Sulphur needs to be broken down into fine particles to increase surface area for *Thiobacilli*. Nulandis' product ensures a very fine particle size for optimum conversion.
3. **Soil Temperature** – Maximum oxidation occurs at soil temperatures of 28-30 °C, medium conversion above 10 °C and very low to almost no conversion at temperatures of 5 °C and lower.
4. **Soil Moisture** – Moist soil promotes oxidization. Dry and flooded soils slow oxidization. Ideal soil moisture is field capacity.
5. **Oxygen** – Needs to be present for conversion. Placing **Tiger Trace Grain** deep into soil reduces the conversion to a sulphate to some extent.

Handling and Storage:

Tiger Trace Grain will blend and store well with other granular fertilizer products. Correct blending and handling procedures should be followed when using **Tiger Trace Grain**. Always use stringent dust control procedures to prevent concentrated flammable dusts from reaching a spark or flame source. Sulphur materials should not be blended and stored with strong oxidizing agents such as ammonium nitrate. Avoid extensive use of augers due to fracturing of the product.

First Aid

Skin Contact: Wash with mild soap and water. Seek medical attention if irritation occurs.

Eyes: Rinse thoroughly with copious quantities of plain water for at least 15 minutes. Inadequate rinsing may cause irritation. Seek medical attention if irritation persists.

Ingestion: Irritation may occur, seek medical attention.

Inhalation: Remove patient to fresh air environment. Seek medical attention.

Disclaimer: While every reasonable care has been taken to ensure that uniformity is correct, we do not warrant accuracy and recommend you obtain local and independent verification.

Produk beskrywing:

Tiger Trace Grain is 'n nuwe geformuleerde korrel mikro-nutriënt wat verskeie verbeterde funksies teenoor konvensionele mikro-nutriënt bronne bied met verbeterde hantering, min tot geen stof en eenvormige grootte.

Tiger Trace Grain is 'n unieke mikro nutriënt met uitstekende hanterings eienskappe wat landboukundige en ekonomiese voordele inhou.

Tiger Trace Grain is 'n 'n koste-effektiewe metode om mikro-nutriënt tekorte reg te stel.

Toediening en gebruik:

Tiger Trace Grain bied 'n seisoenlange beskikbaarheid van yster, koper, mangaan en sink indien dit saam met 'n gebalanseerde voedingsprogram gebruik word. **Tiger Trace Grain** kan alleen toegedien word of saam met ander korrelkunsmis vermeng en toegedien word. Die hoeveelheid benodig moet gebaseer word op landboukundige aanbevelings van grond— sowel as blaarontledings. Raadpleeg 'n landboukundige konsultant indien u onseker is van dié mikro-nutriënt tekort simptome.

Algemeen:

Die volgende faktore is nodig vir die mikro-nutriënte om om te skakel na 'n plant beskikbare vorm.

1. **Mikrobe aktiwiteit** - *Thiobacillus* bakterieë word benodig om te help met die oksidasie van **Tiger Trace Grain**. Sodra dit geoksideer is, is die mikro-nutriënte in 'n sulfaat (SO_4) vorm en beskikbaar vir opname deur die plantwortels. Meeste grondsoorte bevat voldoende *Thiobacillus* populasies.
2. **Deeltjiegrootte** - Swael moet afgebreek word in fyn deeltjies om die oppervlakarea te verhoog vir die *Thiobacilli*. Nulandis se produk verseker 'n baie fyn deeltjiegrootte vir optimale oksidasie.
3. **Grondtemperatuur** - Maksimum oksidasie vind plaas by grondtemperatuur van 28 – 30 °C, gemiddelde oksidasie bo 10 °C en baie lae tot amper geen oksidasie by temperatuur van 5 °C en laer.
4. **Grondvog** - Klam grond bevorder oksidasie. Droë en oornat grond verlaag die oksidasie proses. Die ideale grondvog is by veldkapasiteit.
5. **Suurstof** - Moet teenwoordig wees vir omskakeling. Te diep plasing van **Tiger Trace Grain** in die grond sal die sulfaat omskakeling ietwat verlaag.

Hantering en berging:

Tiger Trace Grain kan maklik gestoor en vermeng word met ander korrelkunsmis produkte. Korrekte vermenging en hanterings prosedures moet gevolg word wanneer daar van **Tiger Trace Grain** gebruik gemaak word. Maak altyd gebruik van streng stofbeheer prosedures om te voorkom dat gekonsentreerde vlambare stof in aanraking kom met 'n vonk- of vlambron. Swael bevattende produkte moenie vermeng of gestoor word met sterk oksideermiddels soos ammoniumnitraat nie. Vermyn die oormatige gebruik van vermenging om opbreking van die produk te verhoed.

Noodhulp

Velkontak: Was met 'n sagte seep en water. Verkry mediese hulp indien irritasie voortduur.

Oë: Spoel deeglik uit met groot hoeveelhede lopende water vir ongeveer 15 minute. Onvoldoende uitspoel kan irritasie veroorsaak. Verkry mediese hulp indien irritasie voortduur.

Ingesluk: Verkry mediese hulp indien irritasie voorkom.

Inaseming: Verskuif pasiënt na omgewing met vars lug. Verkry mediese hulp.

Vrywaring: Hoewel alle redelike sorg geneem is om eenvormigheid te verseker, waarborg ons nie die akkuraatheid nie en beveel aan dat u 'n plaaslike en onafhanklike verifikasie verkry.