

Tiger 90CR



ZEMA product no:

FERTILIZER GROUP 2

Sulphur (S) 900 g/kg

HAZARD STATEMENT

H315 Causes skin irritations.
Slightly toxic to the environment

PRECAUTIONARY STATEMENTS

P264 Wash thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water.

MANUFACTURER:

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DISTRIBUTOR:

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CONTENTS:

BATCH NO:

DATE OF MANUFACTURE:

EXPIRY DATE:



UN No.: Not regulated



WARNING



Tiger 90CR

Sulphur (S) 900 g/kg

Product Description:

Tiger 90CR is a high analysis granular degradable sulphur product that can be used both as a source of plant nutrient sulphur and / or as a soil amendment for correction of problem alkali soils. Yearly applications of **Tiger 90CR** will improve soil sulphur levels as well as losses associated with water soluble nutrients. **Tiger 90CR** is a unique, sulphur fertilizer that delivers agronomically and economically, and provides excellent handling characteristics.

Application and Usage:

Tiger 90CR, when used as a part of a balanced fertilizer program, can provide a season-long source of sulphur. **Tiger 90CR** can be applied alone or blended with granular fertilizers. The amount required should be based on agronomic recommendations from soil tests. Recommendations should also be based on crop removal rates of sulphur. Higher applications of **Tiger 90CR** will acidify high pH and alkaline soils, as well as assisting with leaching sodium from the soil due to the formation of sulphuric acid. During this process nutrients such as phosphates are made more available for plant-uptake through the roots.

General:

The following factors are required for the elemental sulphur to convert to plant available sulphate.

1. **Microbial activity** – *Thiobacillus* bacteria is required to assist with the oxidation of the **Tiger 90CR** product. Once oxidised, the sulphur is in a sulphate (SO_4^{2-}) 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 the oxidation process. Ideal soil moisture is field capacity.
5. **Oxygen** – Needs to be present for conversion. Placing sulphur deep into soil reduces SO_4 production somewhat.

Handling and Storage:

Tiger 90CR will blend and store well with other granular fertilizer products. Correct blending and handling procedures should be followed when using **Tiger 90CR**. 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.

Eyes: Rinse thoroughly with copious quantities of plain water. Inadequate rinsing may cause irritation. Do not use Boric Acid.

Ingestion: Solid Sulphur is virtually non-toxic. It should NOT be ingested.

Inhalation: Sulphur dust may irritate the mucous membranes of the respiratory passages.

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.