

Blood into Organic Fertilizer



Ergofito Blood:

Abattoir's anywhere in the world produce a huge amount of waste. In South Africa, 450 000 cattle are slaughtered yearly with a mix of 45 000 cattle, 275 000 sheep and 115 000 goats. Thus producing the following:

Condemned products:

Livers 6.9%, lungs 5.3% and carcasses 0.2 %



Liquid and solid waste rehabilitation

42 million cubic meters of solid waste of which 5 million is hazardous (DEAT 2007)

Blood constitutes the highest pollution load and highest COD of all the components of liquid abattoir effluents, followed by fat.

Other liquid effluents are:

Blood, bile, urine, dissolved detergents, chemicals and water.

These effluents are rich in organic matter, high in biological nutrients and are high in alkalinity.

Ergofito Biological Solution:

Blood in itself is a natural traditional fertilizer. It contains all the elements required for plant growth, provided it has the correct mix of microbes.

The other above mentioned components found in abattoir liquid waste such as urine, detergents and organic matter are swiftly neutralized and decomposed by Ergofito Blood. Blood has an average of 13% organic Urea.

Ergofito Blood will also remediate any antibiotics and hormones found in the blood and control the spread of pathogens.

The blood requires a simple addition and pre-treatment at the collection point in order to avoid the unpleasant smells and obligatory coagulation.



ADVANCE
ALLIANCE

PRE-TREATMENT:

At the collection point, immediately add the following:

<u>ERGOFITO BLOOD</u>	<u>QUANTITY</u>	<u>WHEN</u>
10kg	1000kg	Immediately

Please note: that once the above is mixed, there will be no offensive smell emanating from the tanker.

APPLICATION TO COMPOST:

Once the blood has been treated with Ergofito Blood as above, the 1000Kg can be used to moisten compost piles.

The blood is a natural source of nitrogen and becomes a true organic source of compost for the agricultural market.

APPLICATION IN THE FIELD:

<u>QUANTITY PER HECTARE</u>	<u>WATER PER HECTARE</u>
1000kg	3000 litres

Please note: that it is advisable to disk in the soil once the above mixed has been applied. Keep the pH. of the mix between 4 and 5.



Conclusion:

The above mix of 1000 kg per hectare will bring up to 130 Kg of organic urea to the soil. A proper soil analysis is needed to ensure that no mineral saturation or lack of certain trace elements or nutrients occurs.

The above is given as a suggestion based on the experience acquired in the field by Ergofito.