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# Sibusiso Ready Food Supplement



# ***Nutritional Challenges***

Disaster situations present unique nutritional challenges:

One cannot rely on a safe water source, access to refrigeration, adequate hygiene and sanitation or adequate access to food.

Many people in South Africa live with these challenges on a daily basis.

# ***Nutritional Challenges***

In developing countries there is a high prevalence of:

- HIV/AIDS
- TB
- Malnutrition
- Developmental abnormalities
- Chronic diarrhoea

A simple black outline map of the African continent is centered on the page. The map is not filled with color and serves as a background for the text.

**Requiring:  
A relevant and effective  
intervention,  
for Africa by Africans**

# Introducing...



**Gift of the Givers**  
FOUNDATION



# ***Gift of the Givers Foundation***



Gift of the Givers  
FOUNDATION



- Established in 1992 by Dr Imtiaz Sooliman
- 17 year history of service delivery to vulnerable populations throughout the world
- Internationally recognised as Africa's largest humanitarian disaster relief organisation
- Developed the World's first containerised mobile hospital and the World's first containerised primary health care clinic

# ***Gift of the Givers Foundation***

- Through their disaster relief work it was noted that patients receiving food relief were still sub-clinically malnourished. They needed a nutritional supplement with the following qualities:
  - Good source of **energy**
  - Source of essential **amino acids**
  - Provide a variety of **vitamins** and **minerals** (especially Vitamin A, iodine, iron, folic acid and zinc)
  - Require **no** refrigeration
  - Require **no** reconstitution or preparation



*Gift of the Givers*  
*innovated*

The World's first soya-groundnut high  
energy and protein supplement

On 16 April 2004



# ***Gift of the Givers Foundation***

- Needed a reputable manufacturing company to make a world class product
- Rab Processors was chosen because:
  - They supply products to United Nations (UN) World Food Programme according to UN standards for the past 23 years
  - Highly credible company
  - Stringent food safety controls
  - Manufacturing plant is HACCP (Hazard Analysis Critical Control Point) compliant
  - Pioneer in the use of extruder technology in Africa

The locally produced groundnuts in Malawi were identified as the perfect food vehicle because their quality is internationally recognised and they are high in protein, essential fatty acids, amino acids including arginine, and magnesium.

However, using groundnuts introduces a risk of aflatoxin exposure.

“The major sources of aflatoxin exposure are maize and groundnuts as these are foods that are most susceptible to contamination and consumed in greatest amounts.”

The Workgroup report for the International Mycotoxin Workshop (2005)



# Aflatoxin

- Toxic substance produced by the fungus *Aspergillus flavus* and *Aspergillus parasiticus*
- Occurs naturally in food: nuts, cereals, oilseeds and spices as well as milk, meat and dried fruit



# ***Aflatoxins***

- **Internationally < 15 ppb**

(Codex Alimentarius Commission – joint Food and Agricultural Organisation of the United Nations/World Health Organisation Food Standards Programme)

- **SA < 10 ppb & B1 < 5ppb**

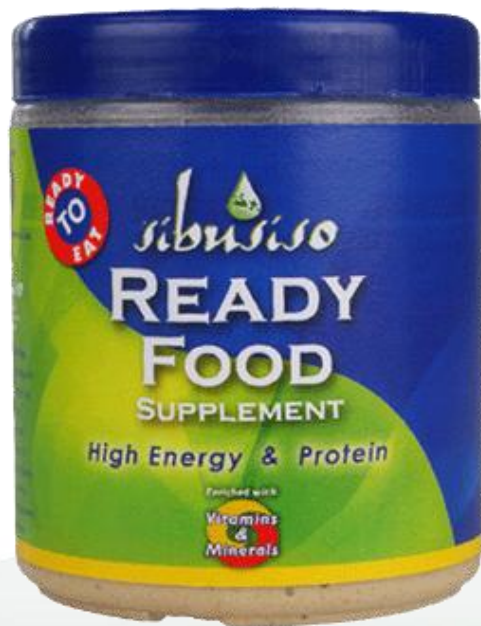
(Regulation No. R313 of 1990, Foodstuffs, Cosmetics & Disinfectants Act, 1972)

- **Sibusiso Ready Food Supplement targeting < 2 ppb**

In the innovation of a  
nutritious supplement:

**high quality and safety** were of  
utmost importance

# *Sibusiso Ready Food Supplement*



## **Sibusiso**

is a Zulu word meaning

## **“Blessing”**



# ***Ingredients in Sibusiso Ready Food Supplement***

- High quality groundnuts
- Soya milk extract
- Soya protein
- Oil (soya oil)
- Sugar
- Vanilla flavouring
- Vitamin and mineral premix





# Manufacturing Sibusiso Ready Food Supplement:



- Steps introduced in the manufacturing process help to decrease the amount of aflatoxin in the end product
- The SRFS is sent from Malawi to Sibusiso Products (Pty)Ltd, based in Durban
- Samples from every batch of product received are sent for monitoring at a SANAS- (South African National Accreditation System) accredited laboratory



# Manufacturing Sibusiso Ready Food Supplement:



- Certificates of aflatoxin levels are available for all SRFS distributed from Sibusiso Products
- Once the product has been tested for aflatoxins, and meets the requirements, it is distributed to facilities
- Orders are delivered to the facilities within 5 working days

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# ***Sibusiso Ready Food Supplement***

- 100% ready to eat
- No preparation required
- No dilution
- No heating/refrigeration
- Can be eaten on its own, or in combination with other foods.





# ***Sibusiso Ready Food Supplement***

Added advantages:

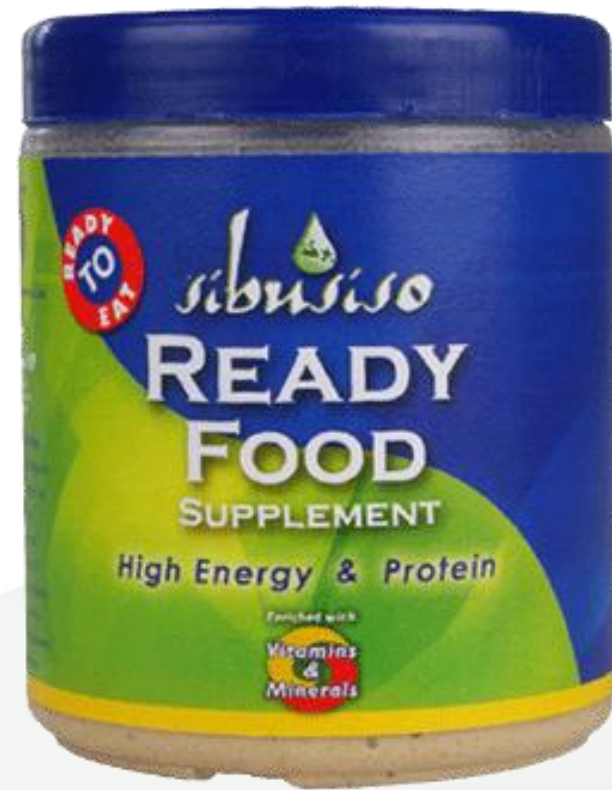
- Lactose-free
- Wheat-free
- Gluten-free
- Preservative-free
- Suitable for vegetarians (Halaal and Kosher)
- Pleasant tasting (sweet, nutty flavour)
- Suitable for infants aged 9 months\* to elderly



\* In specific circumstances where the benefits of supplementation outweigh the risks of allergies



- Stable product
- No added preservatives



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# ***Macronutrient breakdown***

**Energy** dense providing 23.5 kJ/g  
(2352 kJ/100 g)

- **Protein** and essential amino acids  
(11% of total energy) 16 g/100 g
- **Carbohydrates** (34% of total energy)  
48 g/100 g
- **Fats** (55% of total energy) 35 g/100 g



# ***Micronutrient breakdown***

**50 g dose (4 heaped tsp):**

<b>100% RDA +</b>	<b>80 – 100% RDA</b>	<b>70 – 80% RDA</b>	<b>&lt;70% RDA</b>
Vitamin D Vitamin E Vitamin C Folic Acid Vitamin B12 Calcium Iron Iodine Selenium	Vitamin B1 Vitamin B2 Phosphorus	Vitamin A Pyridoxine (B6) Pantothenic Acid	Niacin (B3) Biotin Magnesium Zinc





# *Sibusiso Ready Food Supplement*

*Nutritionally Advancing  
Africa's Development*

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# *Sibusiso Ready Food Supplement*



*A Solution for Africa  
by Africans*

# ***Sibusiso in Practice:***

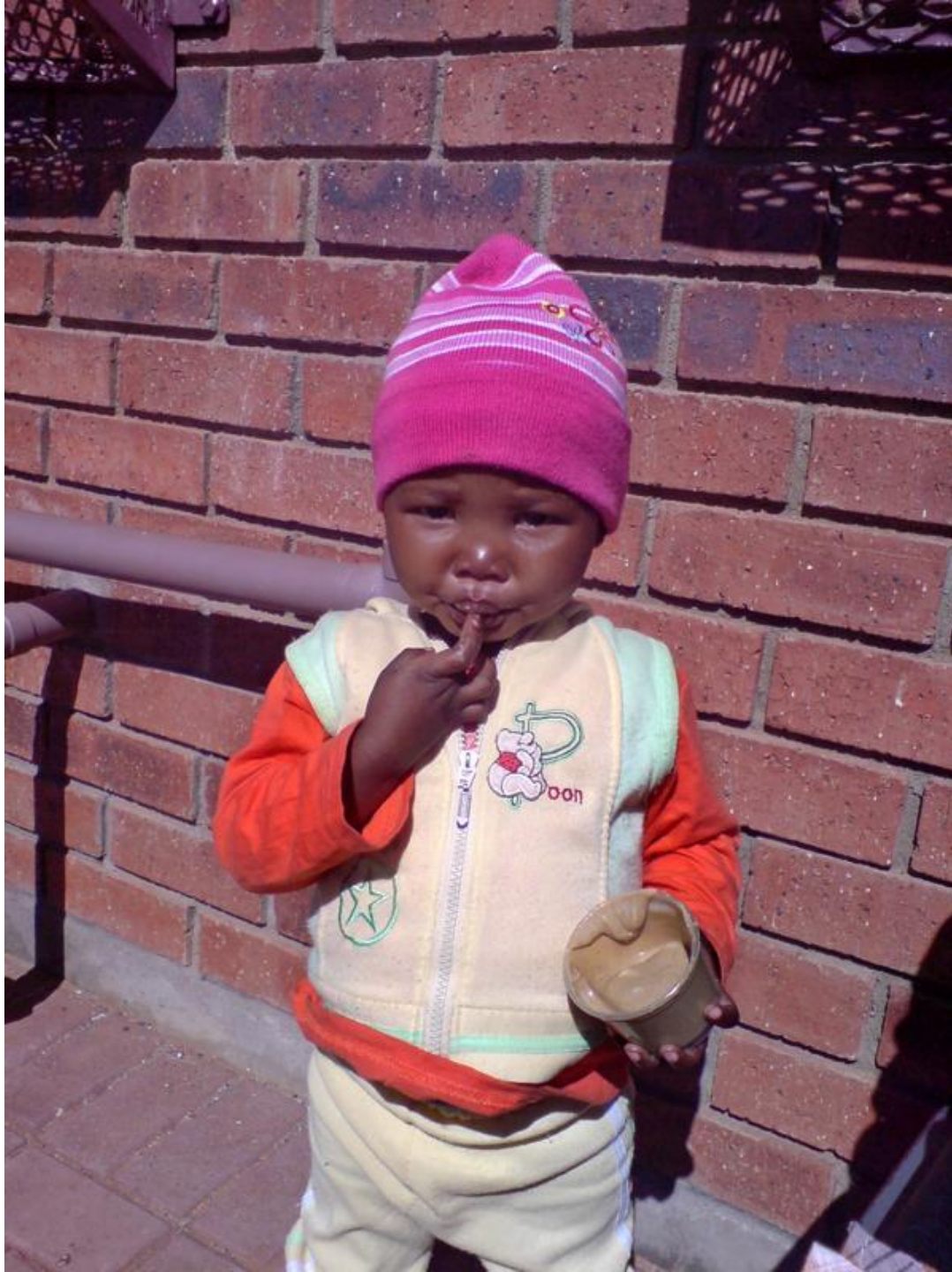
- Nutrition during pregnancy
- Nutrition of infants and young children
- Geriatrics
- Burns and cancer patients
- Severely malnourished adults and children
- Patients with HIV, AIDS and TB



# ***Sibusiso in Practice:***

Any patient with increased nutritional requirements that is unable to meet those requirements through food alone, for example, those suffering from anorexia, diarrhoea, fever, nausea & frequent vomiting, thrush and anaemia





# ***Sibusiso in Practice:***

## ***Dietitian & Patient findings in practice***

Observed improvements in:

- Weight loss
- Muscle wasting
- Low energy levels and states of listlessness
- Loss of appetite
- Weakness
- Illness



***Thank you for you time***

***Any Questions:***

***sibusiso@sibusiso.net***





NUTRITIONALLY ADVANCING AFRICA'S DEVELOPMENT

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