



**BIONAMIX TERRAMAX (PTY) LTD**

Reg No: 98/06378/07

**MATERIAL SAFETY DATA SHEET**

**Number: BIO 01**

**Issued: Aug 2008**

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**NPK BLENDED FERTILIZER  
NPK KUNSMISMENGSELS**

**1. Product and Company Identification:**

Name on Label : All solid Enriched Organic fertilizer mixtures and blends:  
a:b:c (total) = ratio N:P:K (total % N+P+K) where a,b,c,  
= 0,1,2,3,4,5,6,7,8.....

Company Address: PO Box 551, Suider Paarl,7642, South Africa

Emergency Phone: Nearest Local Emergency service

**2. Composition/Information on Ingredients:**

Composition : Bulk-blend with chicken manure and chemical fertilizer powders and/or (small) granules and/or crystalliac products. A mixture of nitrogenous (4,3 – 18 % N), phosphatic (1,2 – 18 % P) potassium (1 - 31 % K), H<sub>2</sub>O (8 – 25 % H<sub>2</sub>O) and Chlorine (0 - 25 % Cl) material.

Appearance: Light to dark brown pellet or powder.

**3. Hazards Identification:**

Dust may cause irritation to skin and eyes.

Indigestion of small quantities may cause gastrointestinal irritation.

Indigestion in large amounts may cause vomiting and collapse.

Inhalation of dust may cause a burning or stifling effect.

**4. First Aid Measures:**

Specific Immediate Treatment

Inhalation : Remove patient from exposure.

Obtain medical attention.

Skin contact : Wash skin with water.

Obtain medical attention if necessary.

Eye contact : Immediately irrigate with clean water, holding the eyelids apart, for at least 20 minutes.

Obtain medical attention.

Indigestion : Do not induce vomiting. Wash out mouth with water.

Give a cup of water to drink.

Obtain medical attention.

Further Professional Medical Assistance

Symptomatic treatment and supportive therapy as indicated.

**5. Fire fighting Measures:**

FLASH POINT:

AUTOIGNITION:

Combustible.

Intense heat will cause smouldering and fire.

Heating under confinement may cause an explosion.

Extinguishing Media: To be determined by surrounding materials.

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Keep unnecessary people away; Isolate hazard area and deny entry.  
Stay upwind  
Self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection.

**6. Accidental Release Measures:**

Precautions : Avoid inhaling dust and eye irritations caused by dust.  
Cleaning up : Shovel into well labelled containers for disposal.  
Prevent material from contaminating water sources.

**7. Handling and Storage:**

Handling

Avoid contact with eyes and inhalation of dust.

Storage

Store in cool dry covered area.

**8. Exposure Control and Personal Protection**

No Exposure limits established.  
If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment including overalls, impermeable gloves and respiratory protection. Eye protection is recommended if dust levels are high. Have appropriate equipment available for use in emergencies.

**9. Physical and Chemical Properties**

Appearance : Powder and/or (small) pellet and/or crystalline material.  
Colour : May vary from light to dark brown.  
Bulk Density: 0,6 – 0,8 kg/m<sup>3</sup> at 20 °C (mostly 0,65 – 0,75)  
Acidity : Small amounts of free acid may be present in some materials. Others may be slightly alkaline if small amount of ammonia may have been liberated.

**10. Stability and Reactivity**

Stable under normal conditions.  
Decomposition products: On exposure to intense heat the material may yield ammonia, chlorine, sublimated ammonium chloride fumes (smoke), oxides of nitrogen.  
Hazardous reactions: Keep away from strong oxidizers and strong reducers which may cause nitration.

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**11. Toxicological Information:**

Inhalation : Vapour/dust may cause irritation to the respiratory tract.  
Skin contact : May cause allergic reactions in some individuals.  
Eye contact : May cause irritation.  
Indigestion : May cause gastrointestinal disorders and large doses may cause nausea, diarrhea, vomiting, collapse. Nitrates cause dilation of blood vessels, methaemoglobin formation, low blood pressure and decreased blood oxygen carrying capacity.  
Chronic Effects : Those with history of cardiovascular disease may have aggravated reactions to overexposure.

**12. Ecological Information:**

Do not discharge into drains or waters and do not store on public depositories.  
Possibility of toxicity to aquatic life  
Harmful to animal life when large quantities ingested

**13. Disposal Considerations:**

Disposal should be in accordance with local, provincial or national legislation. Spilled substances can be re-used as fertilizer in the prescribed manner and at prescribed application rates

**14. Transport Information:**

Hazchem: 1  
UN no: 2072  
Shipping name: Bionamix Terramax

**15. Regulatory Information:**

Materials are registered according to the Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act, Act 36 of 1947 as amended

**16. Other:**

All information is given in good faith but without guarantee in respect of accuracy and no responsibility is accepted for errors or omissions or the consequences thereof. It is the user's obligation to determine the conditions of safe use of the materials.

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C. P. du Plessis