

## MATERIAL SAFETY DATA SHEET



### BioDeposit Agro

1. Identification :	
<b>Substance Identification</b>	: BioDeposit Agro
<b>Company Address</b>	: <b>CHEMICAL INITIATIVES</b> (Pty) Limited, Private Bag X21, Gallo Manor, Gauteng, 2052, South Africa
<b>Emergency Telephone Number</b>	: (011) 806 8953 (011) 608 8965
2. Composition and Ingredients :	
<p>A naturally occurring deposit containing a large organic component and a smaller inorganic component consisting of mineral elements arranged in a complex matrix.</p>	
<b>Typical Analysis</b> <ul style="list-style-type: none"> <li>• State Plant Protection Service (N 150-AKA-114-10)</li> <li>• LATSERT (N62065A)</li> <li>• Institute of Food Safety, Animal Health and Environment 'BIOR' Diagnostic Centre, Laboratory of Food and Environmental Investigations (N 1/1327.1-2010)</li> <li>• Environment Laboratory of State SIA (N 09/2045)</li> <li>• National Diagnostic Centre of the Food and Veterinary Service, Laboratory of Food and Environmental Investigations (N689.1-2009)</li> </ul> <ul style="list-style-type: none"> <li>• Nitrogen-fixing and nitrifying bacteria</li> <li>• Natural water soluble vitamins: carotene (vitamin A), B1, B2, B3, B5, B6, B12, E, C, D, P, folic acid</li> <li>• 16 natural water soluble amino acids: histidine Glutamine, Glycine, Valine Arginine. Aspartine, Alanine, Serine, Leucine, Isoleucine, Phenylalanine, Tyrosine, Lysine, Methionine, Threonine, Cysteine</li> <li>• Natural enzymes: catalase, peroxidase, reductase, protease</li> <li>• Humic complexes: Humic acid, Fulvic Acid</li> <li>• Microelements: As, Fe, Hg, Cr, Cd, Ni, Pb, Cu, Zn, NaCl (,0.10 %)</li> <li>• Nitrogen not less than 10 000 mg/kg</li> <li>• Phosphorous not less than 150 mg/kg</li> <li>• Potassium not less than 250 mg/kg</li> <li>• Organic carbon not less than 40 %</li> <li>• Essential elements: Si, Ca, Al, Fe</li> <li>• Organic matter not less than 75 % (±10 %)</li> <li>• Moisture content 70 % (± 5 %)</li> <li>• pH 3 – 7</li> <li>• Heavy metals below legal requirement.</li> </ul>	

## MATERIAL SAFETY DATA SHEET



### BioDeposit Agro

<b>3. Hazards :</b>	
<p>BioDeposit Agro is not flammable, combustible or explosive under normal conditions as it contains 70 % (<math>\pm 5\%</math>) moisture. However in the event of drying out to less than 20 % moisture and in contact with burning matter it will burn slowly and emit a tarry smoke. The smoke may be irritating to the eyes, nasal passages and lungs.</p> <p>Potential Health Effects:            BioDeposit Agro is not known to cause any harmful health effects by eye contact, skin contact, ingestion or aggravation of existing medical conditions.</p>	
<b>4. First Aid :</b>	
<b>Eye, nasal passage and skin contact:</b>	: Wash area with clean, fresh water. If localized reaction after contact occurs, seek medical attention.
<b>Ingestion:</b>	: In the event of significant ingestion, do not induce vomiting. Seek medical attention.
<b>5. Fire fighting :</b>	
<b>Extinguishing media:</b>	: Use appropriate media to surround fire. BioDeposit Agro is compatible with all extinguishing methods.
<b>Special Exposure Hazards</b>	: None
<b>Protective Equipment for Firefighting</b>	: Wear self-contained breathing apparatus (SCBA) and full protective clothing.
<b>Hazardous Combustion Product</b>	: None
<b>6. Accidental Release :</b>	
<b>Personal Protection</b>	: Wear rubber boot and rubber gloves to protect against chapping effect of wet BioDeposit Agro. Wash and dry hands after contact.
<b>Environmental Precaution</b>	: No known adverse environmental effects
<b>Methods for cleaning up</b>	: Scoop up spillages and place in a container. When handling used BioDeposit Agro, full protective clothing including rubber boots, nitrile gloves and face mask should be worn.
<b>7. Handling and Storage :</b>	
<b>Handling</b>	: Wear rubber boots and rubber gloves to protect against chapping if prolonged contact with BioDeposit Agro.
<b>Storage</b>	: Store in original bags or waterproof containers

## MATERIAL SAFETY DATA SHEET



### BioDeposit Agro

<b>8. Exposure and Personal Protection :</b>	
<b>Occupational Exposure Standards</b>	: None assigned
<b>Respiratory Protection</b>	: None required under normal conditions
<b>Hand Protection</b>	: Waterproof gloves if prolonged contact
<b>Eye Protection</b>	: None required under normal conditions
<b>9. Physical and Chemical Properties :</b>	
<b>Appearance</b>	: Grey-brown to black
<b>Odour</b>	: Odourless.
<b>Vapour Pressure</b>	: n/a
<b>Vapor Density</b>	: n/a
<b>Density</b>	: 0.6 ton/m <sup>3</sup>
<b>pH</b>	: 3-7
<b>water solubility</b>	: Insoluble
<b>Boiling Point</b>	: n/a
<b>Melting Point</b>	: n/a
<b>% Volatile</b>	: n/a
<b>Evaporation Rate</b>	: n/a
<b>Flammability</b>	: Sparingly flammable when dry
<b>Explosion Limits</b>	: No known explosion hazards
<b>10. Stability and Reactivity</b>	
<b>Stability</b>	: This product is stable
<b>Materials to avoid</b>	: Concentrated acids and alkalis
<b>11. Toxicology :</b>	
<b>Inhalation</b>	: No known toxicology
<b>Skin and eye contact</b>	: No known toxicology
<b>Ingestion</b>	: No known toxicology
<b>12. Ecology :</b>	
No known adverse environmental effects	
<b>13. Disposal :</b>	
Disposal of unused BioDeposit Agro can be effected by spreading on cultivated soil or by recycling as an amendment to plant growth media. Used BioDeposit Agro should be disposed of in a registered landfill. The company does not take responsibility for the disposal of used Agro.	
<b>14. Transport:</b>	

## MATERIAL SAFETY DATA SHEET



### BioDeposit Agro

BioDeposit Agro is usually transported in 17 litre polyethylene bags or 800 kg bulk bags, It is non-hazardous with regard to transport regulations.

#### 15. Regulations :

<b>Risk Symbol</b>	:	None
<b>Hazard Classification</b>	:	Non-hazardous
<b>R Phrases (risk)</b>	:	None
<b>S Phrases (safety)</b>	:	None
<b>Precautions</b>	:	Ensure personal safety when handling bulk bags

#### 16. Other :

##### DISCLAIMER:

Chemical Initiatives (PTY) Ltd provides the information contained herein from the manufacturer, BioDeposit Group Ltd in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a proper-trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

**Chemical Initiatives (PTY) Ltd makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect of the information set forth herein or the product to which the information refers. Accordingly, Chemical Initiatives (PTY) Ltd will not be responsible for damages resulting from use of or reliance upon this information.**

**Compiled by:** Ecologika, Chemical Initiatives (PTY) Ltd, Private Bag X21, Gallo Manor, Gauteng, 2052, South Africa

Tel. +27 11 806-8700, Fax +27 11 806-8979

Last revised: Nov 2011