

# RhizoVital 42 li.

## MATERIAL SAFETY DATA SHEET

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**Registered and Distributed By:** Madumbi Sustainable Agriculture  
Postnet Suite 20, Private Bag X6011  
Hilton 3245  
Emergency Telephone no.:27 (0)33 342 3984

**Manufactured by:** ABiTEP GmbH  
Glienicke Weg 185  
D – 12489  
Berlin  
Emergency Telephone no.:49 (0)30 30369 500

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Product description:** Culture broth with spores of non pathogenic microorganism *Bacillus velezensis* FZB42, belonging to risk-group 1 (does not endanger), and conservation agent 1,2-propandiol

**Hazardous ingredients:** None

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### 3. HAZARDS IDENTIFICATION

**Important hazards:** None, according to EEC criteria this product is NOT classified as a "hazardous preparation"

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### 4. FIRST AID MEASURES

**Skin Contact:** Immediately wash with water  
**Eye Contact:** Flush with water  
**Ingestion:** Seek medical advice

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### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Water, Foam, Carbon dioxide, etc  
**Hazardous Decomposition Products:** none

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### 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions:** Avoid direct discharge into food or feed.  
For a large spillage contain by damming  
Avoid infiltration of large volumes into drains, surface water, groundwater and soil.

**Personal precautions:** Respiratory protection, safety goggles and gloves are recommended.

**Destruction and clean up:** Sweep or vacuum into a suitable container for disposal and wash area with water.

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### 7. HANDLING AND STORAGE

**Handling:** Comply with instructions for use.  
**Storage:** Avoid contaminations of the surrounding area.  
**Floor of the depot should be impermeable**  
Stable under normal storage conditions. Keep dry.  
Product should only be kept in original packaging, plastic containers recommended.

**Incompatible materials:** None

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

<b>Engineering measures:</b>	No specific measures are required provided the product is handled in accordance with general rules of occupational hygiene and safety.
<b>Personal protection:</b>	
<b>Hand protection:</b>	Prolonged and/or repeated handling: Impermeable protective gloves.
<b>Eye Protection:</b>	Prolonged and/or repeated handling: Safety glasses
<b>Skin and body protection:</b>	Prolonged and/or repeated handling : Protective clothing No specific/particular action required for this product. Comply with general rules of occupational health and safety.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Slightly viscous liquid
<b>Colour:</b>	yellow to slightly brown
<b>Odour:</b>	non till light specific
<b>pH:</b>	6.5 – 7.0
<b>Solubility in water:</b>	> 100%
<b>Solubility in organic solvents:</b>	None
<b>Boiling point:</b>	Not determined
<b>Melting point:</b>	Not determined
<b>Flash point:</b>	Not determined
<b>Oxidising properties:</b>	Not determined
<b>Specific gravity:</b>	Aprox. 1.0 kd/dm <sup>3</sup>

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## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of use.
<b>Hazardous reactions:</b>	No dangerous reaction known with common products.

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	LD <sub>50</sub> oral (rat): >25 ml (of 1.5% suspension)/kg (No effects)
<b>Local effects:</b>	May cause slight temporary irritation to ocular mucous membranes

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## 12. ECOLOGICAL INFORMATION

<b>Destination of product:</b>	<b>Ultimate destination of the product: SOIL</b>
<b>Aquatic toxicity:</b>	No known toxicity

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## 13. DISPOSAL CONSIDERATIONS

The product and contaminated packaging may safely be disposed of in a land fill or according to local regulations. There is no danger releasing the product into environment and residues may be disposed in sewage drains.

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## 14. TRANSPORT INFORMATION

There are no transport restrictions for this product.

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## 15. REGULATORY INFORMATION

<b>Symbol:</b>	Not applicable to a living organism
<b>Risk Phrases:</b>	None – Non toxic
<b>Safety Phrases:</b>	Keep locked up and out of reach of children, uninformed persons and animals Wash hands after use
<b>National Legislation:</b>	Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act (Act 36 of 1947)

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## 16. PACKING AND LABELLING

Product is packaged in 300g wide-mouthed plastic bottles and sealed with a foil laminate seal. For bulk transporting, 24 of these bottles are packed into a cardboard box. The bottles are labelled according to South African regulations and guidelines (Act 36 of 1947).

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## 17. OTHER INFORMATION

**Recommended Uses:** Plant growth stimulatory agent for various applications.

All information provided in this Material Safety Data Sheet (MSDS) is based on the current state of scientific and technical knowledge and is presented in good faith and believed to be correct. It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come into contact with this product.

The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended.

This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

The aim of the mandatory regulations mentioned is to help the user to fulfil his obligations regarding the use of hazardous products. This information is not exhaustive.

This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the product, do not exist. This is solely his responsibility.

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