



1. IDENTIFICATION

Product Name: Vitazo

Intended Use/Restrictions of use: Free-living Nitrogen-fixing rhizobacterium for improved growth and

productivity.

Details of Supplier of SDS: Mikrobika

P.O. Box 1143

Lichtenburg, 2740, South Africa E-mail: info@microbika.com

Emergency telephone: 0861-555 777 (AfriTox 24 Hour Service)

2. HAZARDS IDENTIFICATION

CLP / GHS / Hazcom 2012 Classification: Not classified as hazardous

Skin Contact: Non-irritant
Eye Contact: Non-irritant

Inhalation: Not an inhalation hazard under normal conditions of use.

Ingestion: Low toxicity product. It is highly unlikely that a sufficient quantity would

be accidentally swallowed to cause any injury.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Azospirillum brasilense in pH buffered solution. Not classified as hazardous.

4. FIRST AID MEASURES

Skin Contact: Wash exposed skin with soap and water. Remove contaminated clothing

If skin irritation persists seek medical attention

Eye Contact: Flush eyes with water for at least 15 minutes. If any irritation persists

seek medical attention.

Inhalation: If breathed in, move person into fresh air. Get medical attention if any

signs of sensitization (e.g. difficult breathing, chest pain, headache, and

flu like symptoms) occur

Ingestion: Wash mouth out with water and call a physician then administer three

cups of water. Do not induce vomiting unless directed to do so by a

physician.

Advice to Physician: Symptomatic treatment

5. FIRE-FIGHTING MEASURES

Type of Material: Non-combustible liquid.

Extinguishing Media: This product is not flammable or combustible. If caught in a fire, use

media appropriate for surrounding fire.

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Special Exposure Hazards: This product does not burn freely. Responders should take into

consideration the hazardous risk associated with responding to a fire in

the area where the material may be stored or handled

Special Protective Equipment: Normal firefighting bunker gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use protective clothing, gloves, safety goggles and boots. Do not

swallow.

Environmental Precautions: Avoid run-off of undiluted material into water courses. Avoid disposal of

large amounts into drains, surface water or groundwater.

Disposal Method(s): Carefully clean up spilled material and wash exposed area with soap and

water. Dispose material into suitable container, within local regulations.

7. HANDLING AND STORAGE

Handling Precautions: Follow Biosafety Level 1 procedures.

> Handle according to instructions on product label. Do not eat or drink while handling the product.

Wash exposed skin with soap and water after handling this product.

Store in accordance with product label instructions. **Storage Conditions:**

Do not freeze.

Store in a cool, dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters: Standard precautionary measures for handling chemicals should be

observed.

Exposure Controls:

Eye / face protection Use safety goggles.

Use protective clothing & gloves. Skin protection No specific recommendation. Respiratory protection

Thermal hazards None.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

Appearance: Liquid

Colour: Light cloudy liquid

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Smell: No distinct odour

Formulation Type: Liquid (LQ)

Storage Stability: Store at a constant temperature between 8 and 24°C. Do not freeze.

Avoid temperature fluctuations.

Shelf Life: 6 months at room temperature.

Bulk Density:1000 kg/m³Flammability:Non-flammableFlash Point:Not applicable

pH: pH 6.5-9
pH of 1% Aqueous Dilution: pH 6.5-9
Oxidizing Properties: Non-oxidizing

Corrosiveness: Non-corrosive

Water Content: 96%

Solubility in Water:Not applicableFoaming:Not applicableParticle size:Not applicableVolatility:Non-volatileViscosity:Not applicable

10. STABILITY AND REACTIVITY

Stability: Azospirillum Spp loses viability with time. This product is stable for 6

months when stored at a constant temperature between 8 and 24°C.

Conditions to Avoid: Avoid temperature fluctuation. Avoid temperatures above 24°C and

below 8°C. Do not freeze.

xMaterials to Avoid: Do NOT mix with any agrochemicals without consulting with your

chemical distributor, consultant or the registration holder.

Hazardous Decomposition Products: Hazardous polymerization will not occur

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:Data not availableEye Irritation:Data not availableSkin Irritation:Data not availableAcute Pulmonary:Data not availableAcute Intra-peritoneal:Data not availableIntravenous:Data not availableChronic Effects:Data not available

12. ECOLOGICAL INFORMATION

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Environmental Behaviour: Azospirillum is a free living N2-fixer diazotroph which occurs naturally in

the ground.

Mobility and Bio-accumulation

potential:

Data not available

Ecotoxic Effects: Data not available

General Information: Data not available

13. DISPOSAL CONSIDERATIONS

Precautions: None of the ingredients raise concern for the environment.

Disposal of Product: Unwanted product may be safely disposed of in a land-fill or discarded

as non-hazardous waste in accordance with local regulations.

14. TRANSPORT INFORMATION

Road/rail:

Not classified as dangerous in the meaning of transport regulations.

Not classified as dangerous in the meaning of transport regulations.

ICAO:

Not classified as dangerous in the meaning of transport regulations.

ADR:

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Supply Classification:

Hazard Symbols:

None

Risk Phrases:

None

Safety Recommendations: Keep out of reach of children, uninformed persons and animals.

Wear protective gloves.
Wear protective goggles

Do not swallow.

To avoid risks to human health and the environment, comply with the

instructions for use.

16. OTHER INFORMATION

Recommended Use: Free-living Nitrogen-fixing rhizobacterium for improved growth and

productivity.

Further Information: Product classified and safety datasheet produced according to GHS

directives.

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The information contained in this SDS was compiled using the latest and most reliable information available to Microbika Pty Ltd. The data is based on the current expertise and presents the health, safety and environmental aspects of this product. They form no guarantee of product properties. Recommendations presented in this SDS apply only to the product as originally supplied. If other ingredients are used in the processing of this product, the recommendations for the use and handling of that product must be verified.

This document contains important information in order to ensure the safe storage, handling and use of this product. The information in this document must be brought to the attention of the safety/health/environmental advisor within your organisation. The information in this document must be made known to everyone whose work involves this product.

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