

SAFETY DATA SHEET

Product name:	Version: 1.0
Issue Date: 20 May 2025	Page: 6

1. Identification of The Material and Supplier

Product name:	Vital Roots
Product use:	Biological product used for improving nutrient uptake in Hydroponics farming
Manufacturer:	BBA Biosolution Pty Ltd 25 Captain Cook Dr, Caringbah, NSW 2229
Emergency telephone numbers:	Police, Ambulance, Fire: 000 (Mobile 112) Poisons Information Centre (Australia) 13 11 26 BBA Biosolution Mon-Fri 9:00am - 4pm AEST 0421 659 176 (Australia)

2. Hazards Identification

Classification:	Non-Hazardous
	Not classified as Hazardous according to the criteria of Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
	Not classified as a schedule poison according to NDPSC.

3. Composition / Information On Ingredients

Substances:	Bacillus Spp, Lactic Acid and Photosynthetic Bacteria. Microbial species guaranteed to be GM free.
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4. First Aid Measures

Skin:	If irritation develops, seek medical attention. Remove and wash contaminated clothing before reuse.
Eye:	Avoid contact with eyes. May irritate the eyes. Flush eyes with flowing water for at least 15 minutes. If irritation persists, seek medical attention.
Ingestion:	Maybe harmful if swallowed. Rinse mouth with clean water and then seek immediate medical attention.
Inhalation:	If difficulty in breathing occurs, move affected person to fresh air. Loosen clothing to ease breathing. Seek immediate medical attention.
Symptoms and effects:	No significant reaction of the human body to the product known.
Medical attention:	Not applicable

5. Fire Fighting Measures

Flammability:	Non-flammable and non-combustible.
Extinguishing media:	Use extinguishing media suitable for surrounding fire situations.
Hazchem code:	Not applicable

Personal protective equipment:	Not applicable
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6. Accidental Release Measures

Personal protection:	No special requirements under normal use conditions.
Environmental precautions	Review local regulations before release to the environment.
Methods and material for containment and cleaning up:	Wash off any contaminated surface with water and detergent. Use disinfectants if possible.

7. Handling and Storage

Precautions for safe handling:	Avoid contact with skin and eyes. Wear eye protection, face mask, impervious gloves and overalls. Do not remove from packaging until ready to use.
Conditions for safe storage, including any incompatibilities:	Keep out of reach of children. Store in a cool, dry area in original sealed container below 45°C and away from sunlight (preferably under refrigeration). Do not freeze..
Specific end use(s):	Apart from the uses mentioned in section 1, no other specific uses are stipulated.

8. Exposure Controls/Personal Protection

National exposure standards:	None established.
Biological limit values:	None established.

Precautions in connection with fire:	Gloves, eye protection and face mask. Always wash hands before eating, drinking or using the toilet.
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9. Physical and Chemical Properties

Parameter	Value / Test method / Remarks
1. Physical state:	Liquid
2. Odour:	Lightly vinegar flavour
3. Color:	Light milky
4. pH:	6.0 - 6.5
5. Melting point/freezing point:	N/A
6. Boiling point or initial boiling point and boiling range:	100°C
7. Solubility in water:	soluble
8. Flammability:	Not applicable
9. Auto-ignition temperature:	Not applicable
10. Vapour pressure:	Not applicable
11. Evaporation Rate:	Not applicable
12. Conductivity:	Not applicable

10. Stability and Reactivity

Reactivity:	Not reactive
Stability:	Stable
Hazardous reactions & materials to avoid:	Hazardous polymerization will not occur. Avoid store with strong oxidizing agents, disinfectants, fungicides, and biocides.

Conditions to avoid:	Direct sunlight, extremes in temperature, high humidity. The microorganisms start to die at $\geq 50^{\circ}\text{C}$.
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11. Toxicological Information

Parameter	Value / Test method / Remarks
1. Acute Toxicity	No data available. May cause gastrointestinal discomfort if consumed.
2. Skin:	No data available. May cause irritation. Seek medical advice if allergic reactions develop.
3. Eye:	No data available. May cause irritation.
4. Respiratory or skin sensitisation:	No data available. May cause irritation.
5. Germ cell mutagenicity:	No data available.
6. Carcinogenicity:	No data available.
7. Reproductive toxicity:	No data available.
8. Specific target organ toxicity (STOT) single exposure:	No data available.
9. STOT repeated exposure:	No data available.
10. Aspiration Hazard:	No data available.

11. Ecological Information

Ecotoxicity:	No data available
Persistence/Degradability:	No data available
Mobility:	No data available
Environmental Protection:	No data available

13. Disposal Considerations

Disposal Method:	Dispose of in accordance with local government guidelines.
Container:	Dilute well with water before discharge. Recycle containers if possible.

14. Transport Information

Land Transport (ADG Code):	Not classified as hazardous
Air Transport (IATA Code):	Not classified as hazardous
Sea Transport (IMDG Code)	Not classified as hazardous
Additional Information:	Avoid extremes in temperature, product quality will degrade $\geq 50^{\circ}\text{C}$.

15. Regulatory Information

Poisons Schedule:	Not scheduled
Air Transport (IATA Code):	Not classified as hazardous
Sea Transport (IMDG Code)	Not classified as hazardous
Additional Information:	Avoid extremes in temperature, product quality will degrade $\geq 50^{\circ}\text{C}$.