MATERIAL SAFETY DATA SHEET

PRODUCT: FERTILISER SPIKES – FOR FLOWERING PLANTS

Date of Issue: 30 SEPT 2025 **Valid until:** 29 SEPT 2030 **GHS** Format

1. IDENTIFICATION OF MATERIAL & SUPPLIER

Product (material) Name: Manutec Fertiliser Spikes – for Flowering Plants
Other names: None
Manufacturer's code:MTO2002
Recommended use: as a slow release Spike shaped fertilsier to supply all essential nutrients in a slow release form to enhance growth and flowering of potted and other garden plants

Manufacturer/Supplier Information:

Name: MANUTEC PTY LTD
Address: 30 Jonal drive, Cavan, South Australia 5094
Telephone No:+61-8-8260 2277 **Fax**:+61-8-8260 2399
Email: manutec@manutec.com.au

Emergency contact only: Poisons Information Centre (Australia) 131126

2. HAZARDS IDENTIFICATION

Poisons Schedule: None classified

Hazard Classification: NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Hazard Categories: None specified

Pictograms: None specified

Signal Word: None specified

Hazard Statements: None specified

Precautionary Statements: None specified

National Transport Commission (Australia)

Dangerous Goods Classification

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportion
Proprietary formulation of various non hzardous ingredients in tablet form (Major Ingredients are Slow relase Nitrogen (UF-38) – CAS NO 68611-64-3 Di Calcium Phosphate (CAS NO 7758-23-80) Potassium Sulphate (CAS NO 7778-80-5) Super Phosphate (CAS NO 8011-76-5) Calcium Carbonate (CAS NO 471-34-1) Plus Trace Elements premix and non hazardous binders		100%

4. FIRST AID MEASURES

If poisoning occurs, please contact immediately Poisons Information Centre (Australia) on 131126

Ingestion: Rinse mouth with water. If swallowed, and if vicitm is concious try to induce vomiting, but never give anything by mouth to unconcieuus person. If vomiting occurs give additonal water. Seek medical advice immediately.

Eye: Flush with flowing water for 10-15 minutes. If irritation persists, seek immdediate medical advice.

Skin: Remove contaminated clothing. Wash affected part with soap and clean water.

Inhaled: This product is not dusty.

Aid Facilities: Poisons Information Centres in each State capital city may provide additional assistance (Ph 131126).

Advice to doctor: No special advice, treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazchem code: Not applicable

Extinguishing media:

Material is non-combustible, however if cuaght in fire use Water spray/fog, foam, dry agent (carbon dioxide/dry chemcial powder)

Special protective equipment for firefighters:

On decmoposition, may emit toxic fumes, so fire fighters to wear appropriate clothing and self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Small spills: In the event of spills, it is very easy to pick or collect for repacking or reuse.

Large spills: In case of large spills, collect in to properly labelled containers. Avoid material entering in to drianage or waterways.
Advice or contact local council or environmental authority as appropriate.

7. HANDLING AND STORAGE

- Avoid direct contact with Skin, eye contact.
- Store in a dry, cool and ventillated place away from Children, pets and exposure to direct sunlight. Also store away from any incompatible materials descibed in section 10 of this safety data sheet.
- When not in use and after use, ensure to keep the container/bag sealed properly and with original label intact.
- If any spillage, follow appropriate action as descibed in section 6 of this data sheet.
- Store in original packaging as approved by manufacturer

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures:
Proper Ventillation in place, particualry while handling larger volumes in factory settings and use appropriate protective cloth
Control of exposition limit:
Respiratory protection: This product is not dusty in general, however if a person is sensitive to fertiliser odour, recommended to use mask appropriately.
Hand protection: Rubber or plastic gloves
Eye protection: Safety glasses
Skin protection: Use adequate cloth

Personl Protection in Manufacturing/Packing area:
Wear overalls, safety glasses and impermiable gloves. Avoid generating dust. If dust exists wear appropriate dust mask meeting requirements of AS/NZS 1715 Standards. Always wash hands after handling and before eating, smoking or drinking. Wash contamintaed clothing before storing or reuse

Hygeinic and personal protection practices while handling the product
Keep the material/product away from food and drink, animal feed.
When using, donot eat,drink or smoke
Wash hands or affected area thoroughly prior to eating, drinking or smoking
Avoid contact with skin, eye.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	long chalk stick shape with 1.0 to 1.5g size
Colour:	Pinkish red
Odour:	None
Melting Point:	Not applicable
Boiling Point:	Not applicable
Specific Gravity:	Not determined
Flashpoint (C):	Non flammable
Flammability Limits:	Non flammable
Solubility in water:	slowly soluble in water

10. STABILITY AND REACTIVITY

General Information	Product is a non-flammable solid.
Chemical Stability	Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid	Avoid excessive heat, generating dust, direct sunlight, moisture and high temperatures.
Materials to Avoid	Incompatible with strong oxidising agents, bases, mineral acids.

Hazardous Decomposition Products
Main combustion gases if caught in fire: sulfur oxides (SOx), metal oxides.
Hazardous Polymerisation
Hazardous Polymerisation has not been reported.

11. TOXICOLOGICAL INFORMATION

In general when the product is used and handled safely and as per directions on the label and per safety data sheet instructions, no adverse effects are expected. However in case of mishandling or overexposure to the product, may result in symptoms of accute and Chronic effects.
Information on Toxicity: No published data or information available, however materials used in this product are considered non- hazardous.
ACUTE EFFECTS

Ingestion/Swallowed:	May cause gastric irritation and result in nausea & vomiting, however ingestion of large amounts may be harmful and dangerous. No data available
Eye:	Irritant on contact
Skin:	Prolonged exposure may cause irritation and dry skin, particularly to senstitive skins
Inhaled:	Non hazardous, Not generally dusty,

Chronic Toxicity:

Mutagenicty:	No data/information available, but material considered non hazardous
Carcinogencity	This material considered non hazardous
Specific Organ Toxicity	No information available but material considered non hazardous.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Mobility	Completely soluble in water.
Environmental Fate	Do NOT allow excessive product to reach waterways, drains and sewers**.**
Bioaccumulation Potential	No information available on bioaccumulation for this product.
Environmental Impact	No Data Available

13. DISPOSABLE CONSIDERATIONS

General Information Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

14. TRANSPORT INFORMATION

National Transport Commission (Australia)
Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
Dangerous Goods Classification
NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Marine Transport
Not classified as dangerous according to the criteria of International Marine Dangerous Goods (IMDG) for transport by sea.

Air Tansport
Not classified as dangerous according to the criteria of International Air Transport Association (IATA) Dangerous Goods regulation for transport by air.

15. REGULATORY INFORMATION

Constituents or materials used in this product are covered by Australian Inventory of Chemical Substances (AICS)

Poisons Schedule (Aust) Not scheduled

16. OTHER INFORMATION

The MSDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

STATEMENT OF DISCLAIM:
This Material Safety Data Sheet has been developed according to WHS Code of Practice Preparation of Safety Data Sheets for Hazardous Chemicals Guidelines and written in accordance with GHS format. All information is as accurate and up-to-date as possible. Since Manutec Pty Ltd cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application. Manutec Pty Ltd will not be responsible for damages of any nature resulting from use of or reliance upon this information.
No expressed or implied warranties are given other than those implied mandatorily by Federal, State or Territory Legislation.