MATERIAL SAFETY DATA SHEET

PRODUCT: MANUTEC SOIL pH TEST KIT

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

1. IDENTIFICATION OF MATERIAL & SUPPLIER

Product (material) Name: Manutec Soil pH Test Kit
Other names: None
Manufacturer's code: MTO8000
Recommended use: For testing the acidity or alkalinity (pH) of soils, potting mixes, compost and other solid materials.

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: Poisons Information Centre (Australia) 131126

2. HAZARDS IDENTIFICATION

ADG Code:Non allocated, Non-Dangerous according to the criteria of the Australia Dangerous Goods Code
HazChem Code:None allocated, NOT Hazardous according to the criteria of NOHSC (National Occupational Health & Safety Commission)
Risk phrase(s): None allocated
Poisons Schedule: None allocated
Safety phrase(s): None allocated

3. COMPOSITION/INFORMATION ON INGREDIENTS

	Chemical Entity
Part 1: Indicator Liquid	Diluted (proprietery) alkaline solution with mixture of Indicator dyes
Part 2: White Powder	Barium Sulphate

4a. FIRST AID MEASURES – PART-1 (INDICATOR LIQUID)

Swallowed: Wash/rinse mouth out with water. Seek immdediate medical advice or attention.

Eye: Flush eyes immediately for at least 15 minutes, lifting eye lids, with copious amounts of water. Seek immdediate medical attention.

Skin: Wash thoroughly with soap and plenty of water. If irritation develops seek medical attention.

Inhaled: Move from contaminated area to fresh air. If discomfort persists seek medical attention.

4b. FIRST AID MEASURES – PART-2 (BARIUM SULPHATE)

Swallowed: Do not induce vomiting. Give up to 200ml water, Wash/Rinse Seek immdediate medical advice or attention.

Eye: Flush eyes immediately for at least 15 minutes, lifting eye lids, with copious amounts of water. Seek immdediate medical attention.

Skin: Wash thoroughly with soap and plenty of water.

Inhaled: Move from contaminated area to fresh air. If discomfort persists seek medical attention

5. FIRE FIGHTING MEASURES

Flammability conditions: Both Indicator Liquid and White Barium Sulphate materials are not flammable and incombustible.

Extinguishing media: No particular restrictions, use appropriate considering surrounding fire conditions

Hazards from combustion: Both materials in this kit are non combustible.

Protective Equipments: Fire fighters should wear a positive pressure self contained breathing apparatus and protective fire fighting clothing/gear.

6. ACCIDENTAL RELEASE MEASURES

General Response/Cleanup Procedure: Both materials in this kit are non dangerous and non hazardous, Any spillage of indicator liquid may cause stain upon spilling, so clean up with rags/abosrbant material asap. Any spillage of Barium dust can be cleaned up by careful sweep or vacum clean.

7. HANDLING AND STORAGE

7.1 Safe Handling:

1.When using the product, DO NOT eat, drink or smoke
2. Avoid contact with skin & eyes and take off immediately all contaminated clothing
3. DO NOT empty the contents into drains
4. Wear suitable protective gloves, dust masks for protection if required.
5. Indicator Liquid may stain skin, but harmless, can easily be washed off with soap and water.

7.2 Safe storage conditions: Store in a cool and dry place in original containers and away from food stuffs, pets and Children.
Keep containers tightly closed when not in use.
Leakage from Indicator liquid will stain other material or articles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure standards/limits: No data available
Biological limit values: No information is available
Engineering controls: As this product is a retail package, no wide sprea contamination is expected. However a system of local/general exhaust is recommended to keep exposure as low as possible.
Personal Protection equipment: Both Indicator Liquid & Barium Sulphate materials are non dangerous and non hazardous, however to avoid any staining from Indicator liquid and as general safety reasons, it is recommended to use normal garden or protective gloves while handling or using this product. Safety glasses can be used as requred while dusting Barium Sulphate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Apperance:	**Indicator Liquid:** dark green and reddish colour **Barium Sulphate:** white powder
Odour:	Indicator Liquid is with earthy organic smell and Barium Sulphate is odourless.
Melting Point range	Barium Sulphate: >1,350ºC Indicator Liquid: not available
Boiling Point range	Not available
Flash Point:	Not flammable
Ignition temparature:	Not flammable
Oxidising properties:	None
Explosive properites:	No danger of explosion
Vapour pressure:	not available
Density:	Indicator Liquid: 1.2g/ml Barium Sulphate: 4.4g/ml
pH value:	Indicator liquid: approx. 6.5 Barium Sulphate: approx. 6-6.5

10. STABILITY AND REACTIVITY

Reactivity: no specific reactive is known
Chemical stability: stable under normal use conditions
Hazardous reactions: Barium Sulphate may react with addition of strong reducing agents
Conditions to avoid: For Barium Sulphate above 1300 ºC (melting point)

Incompatable materials: For Barium Sulphate - strong reducing agents

Hazardous decomposition products: Sulphur oxides, Bao

11. TOXICOLOGICAL INFORMATION

FOR PART-1 – INDICATOR LIQUID

ACUTE EFFECTS
Swallowed: Adverse human effects have not been determined**.**
Eyes: May cause irritation.
Skin: May cause irritation**.**
Inhaled: Odour may cause irritation to nasal passages and throat.

CHRONIC EFFECTS: No comprehensive human or animal studies have been conducted for long term effects**.**

FOR PART-2 – BARIUM SULPHATE

SUMMARY OF HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Barium Sulphate is inert, practically non-toxic and chemically non-irritating. Skin contact may cause mechanical irritation due to abrasion. Eye contact will result in no specific effects other than general particulate irritation in the eye. Not absorbed by the body.

ACUTE EFFECTS: Inhalation of dust may cause mechanical irritation to the respiratory tract. Skin and eye contact may cause a mechanical abrasion irritation.

CHRONIC EFFECTS: No Toxic effects known

12. ECOLOGICAL INFORMATION

Ecotoxicity: Non toxic, no specific data available

Persistance and degradability: not applicable

Mobility: not applicable

Bioaccumulative potential: not applicable.

13. DISPOSABLE CONSIDERATIONS

Disposable methods: Non hazardous waste, dispose in accordance with all local, state and federal regulations.

Packaging/containers: Containers/packaging must be treated as waste and disosed in accordingly dpending on material type. Plastic packaging can be treated as recyled waste as appropriate.

14. TRANSPORT INFORMATION

UN number: None allocated, This product is not classified as a hazardous and non dangerous goods

UN Proper shipping name: None allocated

Class & subsidiary risk: None allocated

Packing group: **None**

Special precautions for user: Fragile packing, use/handle with care to avoid damage/spill

Hazchem code: None (Non hazardous)

15. REGULATORY INFORMATION

Regulatory status of product/materials: Not available

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.
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